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BOOK
ONE

Making Sure of Arithmetic

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Making Sure of Arithmetic

BOOK ONE

ROBERT LEE MORTON **MERLE GRAY**

ILLUSTRATED BY: ***Milo Winter, Fred Collins, Paul Wenck, and others***

ARITHMETIC IN GRADES ONE AND TWO

First- and second-grade children are ready for arithmetic. The question is not whether an arithmetic program is needed, but what kind of a program is best for young children.

The authors of *Making Sure of Arithmetic* present neither a formal or rigid program in these grades on the one hand, nor an unorganized and incidental program on the other. They believe, on the basis of classroom experimentation, that organized opportunities to learn should be provided. The learning experiences must be systematic because arithmetic itself is an organized, integrated system. But sequential, planned learning experiences do not require regimentation or formality. The ideal program of beginning arithmetic capitalizes upon classroom situations and the life needs and interests of the children. At the same time it gives the child complete and rounded arithmetical experiences.

Six- and seven-year-old children are used to dealing with the concrete. For this reason, *Making Sure of Arithmetic*, Grades One and Two, is rich in concrete experiences, dramatization, and kinesthetic activity. But the children must be encouraged to progress as rapidly as they can from the concrete to the semiconcrete toward the abstract. Therefore, *Making Sure of Arithmetic* in these grades consistently provides not only for concrete classroom experience at each step of the way, but also for less concrete experiences.

Making Sure of Arithmetic, Grades One and Two, helps the children to understand thoroughly all of the numbers from 1 to 10; to begin to understand two-place numbers and the decimal number system; to learn what addition and subtraction mean; to discover the addition and subtraction facts with sums and minuends to 10; to use these facts with understanding many times in problems, examples, column addition situations, and simple operations with two-place numbers; to see the relationship between addition and subtraction; to clarify and round out what they know about money; to gain clear ideas of certain unit fractions, certain measurement ideas, and many arithmetical terms; and to grow in problem-solving ability.

The learning program is most carefully and completely planned so that it is easy for the children and easy to administer, and yet makes sure of permanent understanding. In the program of the first two grades, for example, there are 34 separate groups of experiences which help the child increase his understanding of the number 4. All of the other numbers from 1 to 10 are treated with similar thoroughness. Yet this wealth of experience is woven into a genuinely easy program filled with variety and interest.

Both the first- and second-grade programs of *Making Sure of Arithmetic* consist of two books — one for the pupil and one for the teacher. The unique Teacher's Edition, printed in the same colors as the pupil's book, eliminates the need for consulting a separate guide.

The kind of arithmetic program presented in the first two grades affects crucially the future progress of children in arithmetic. *Making Sure of Arithmetic*, tested in the laboratory of the nation's schools, takes full advantage of the opportunities in these grades. This program provides a permanent foundation of meaningful arithmetic.

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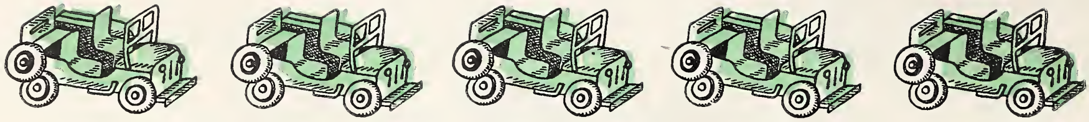
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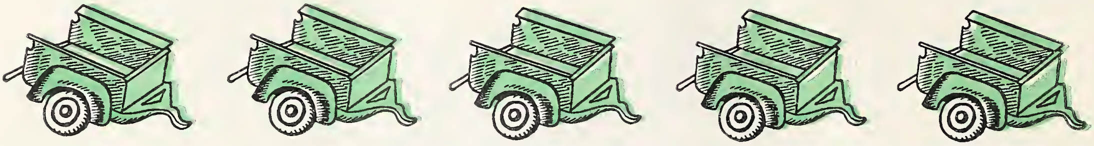

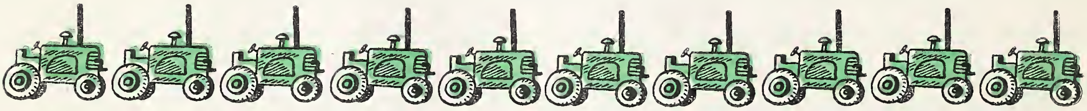

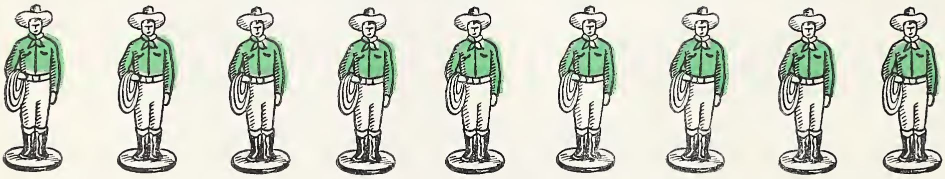

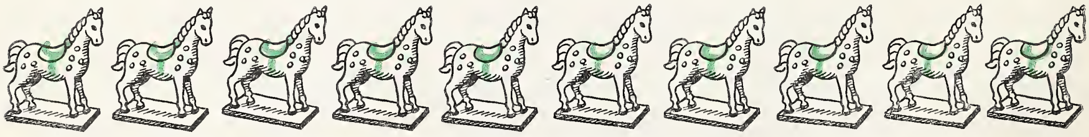

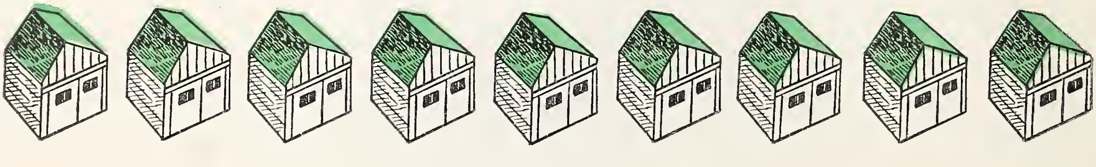

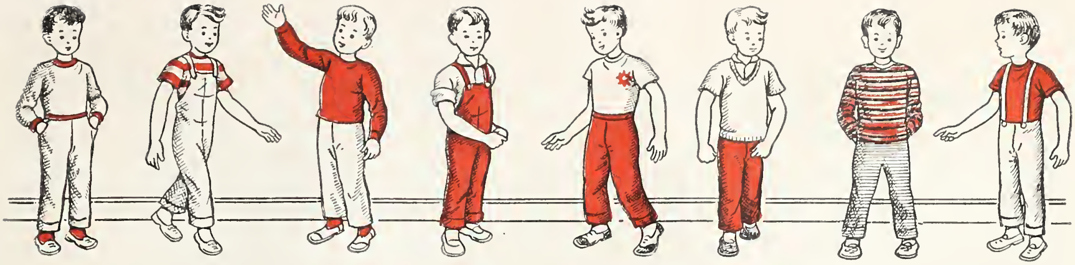

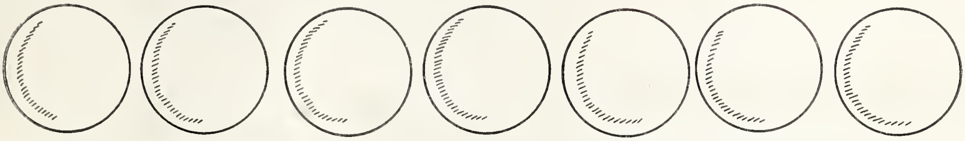

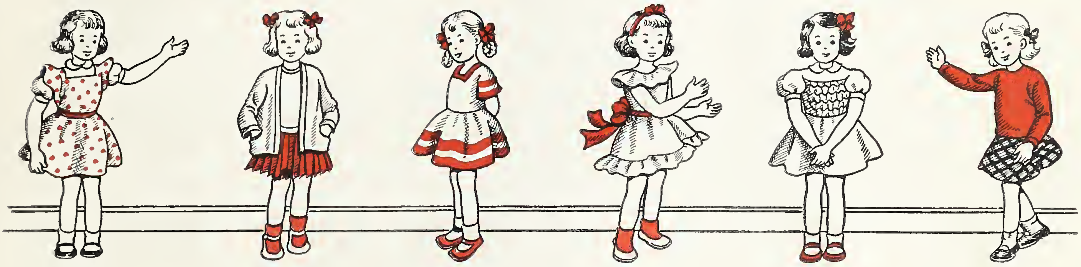

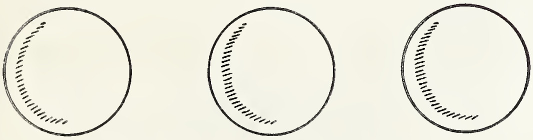

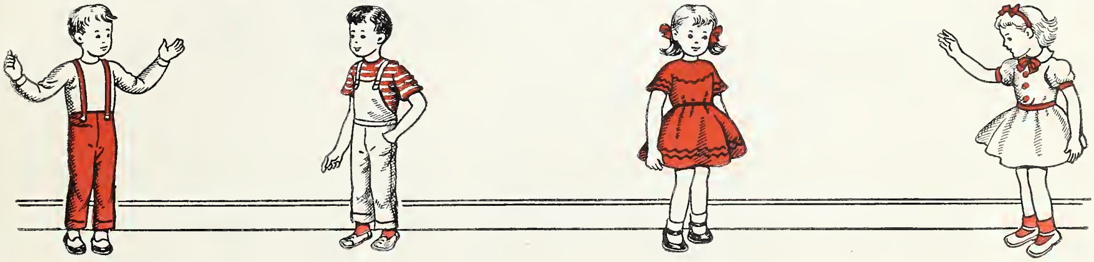

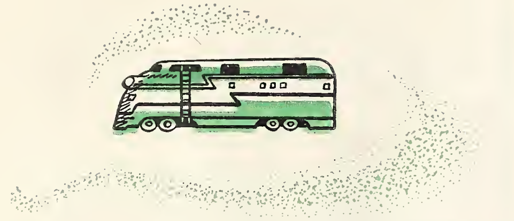

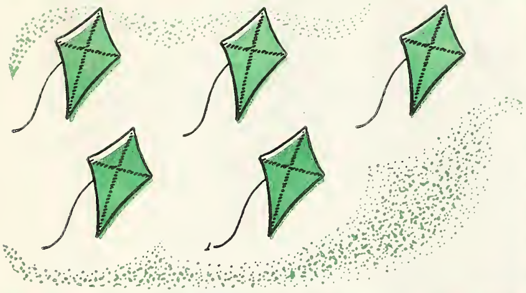

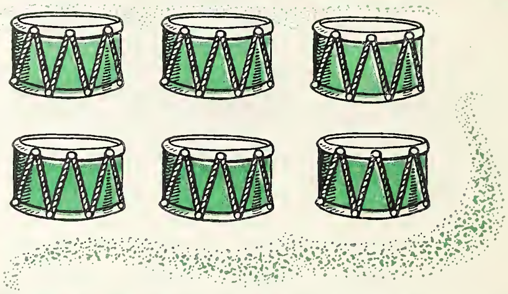

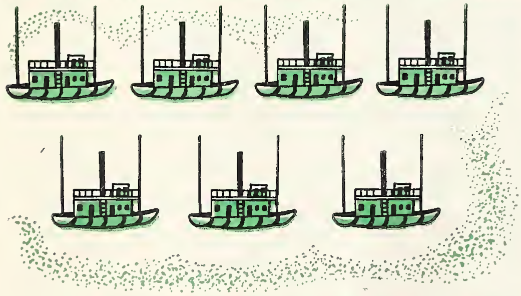

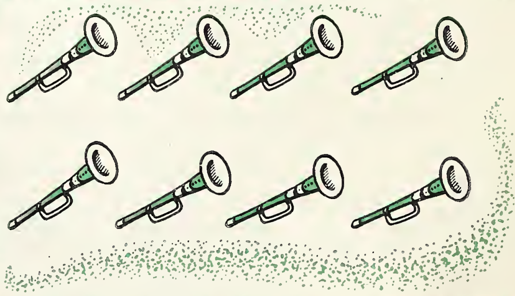

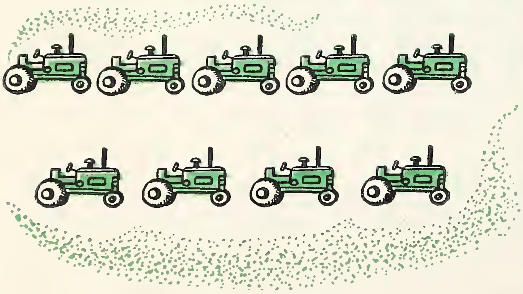

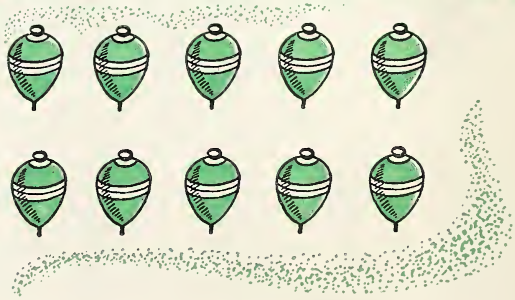

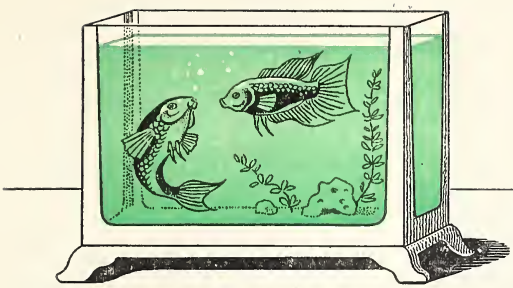

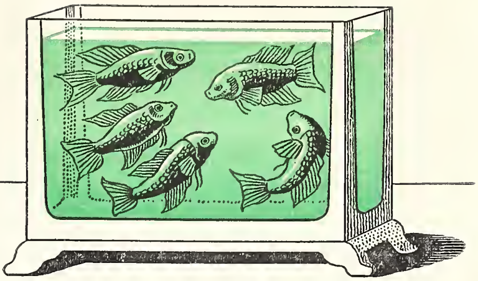

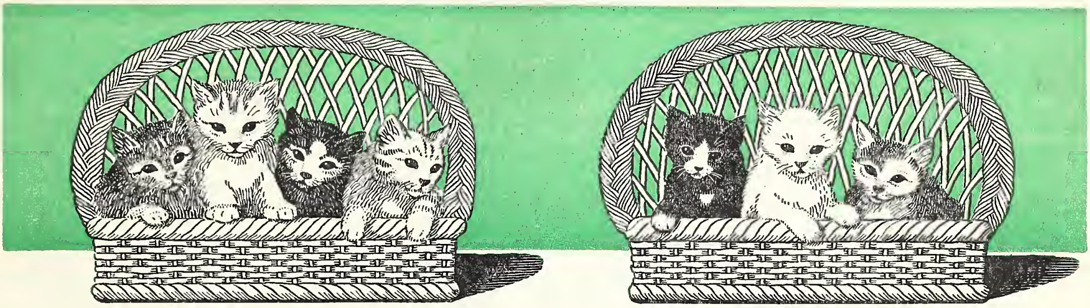

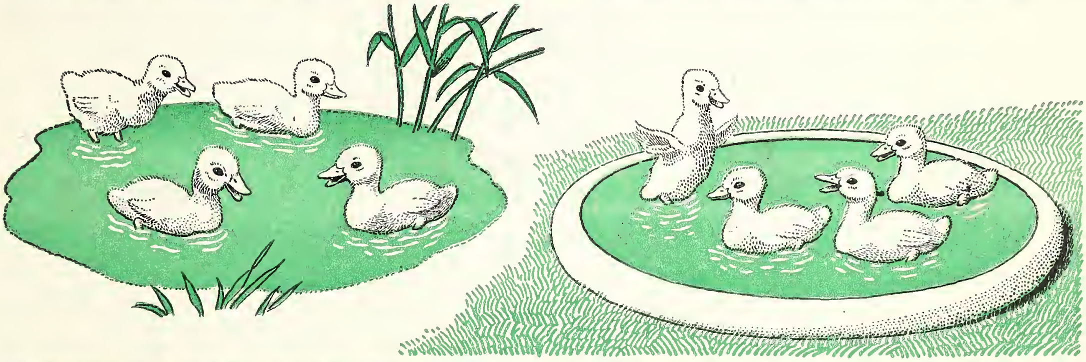

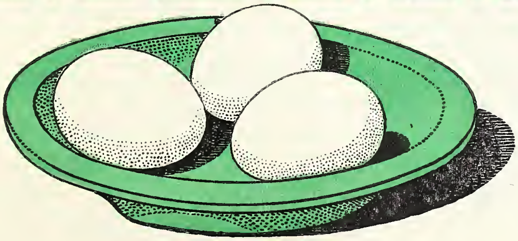

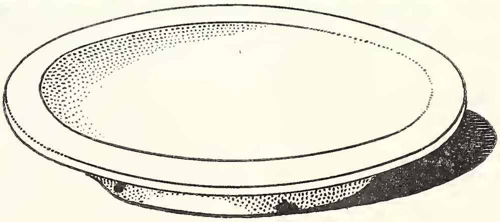

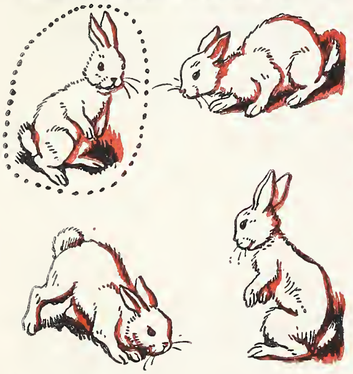

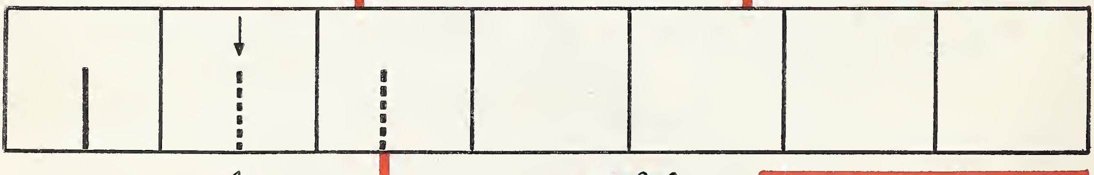

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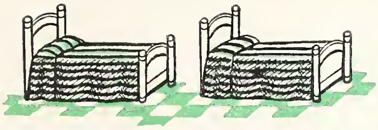

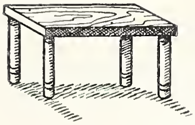

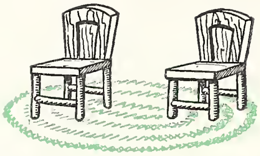

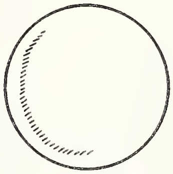

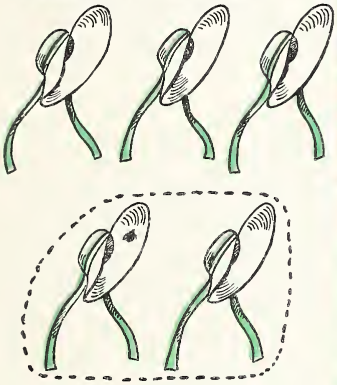

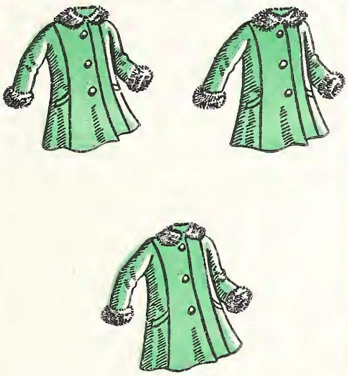

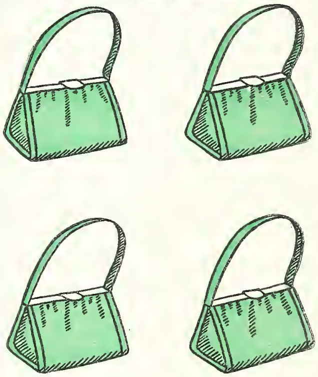

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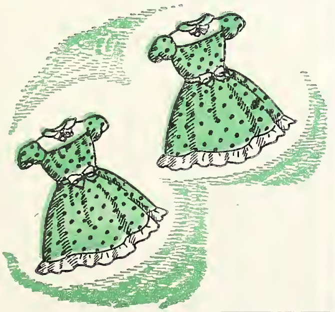

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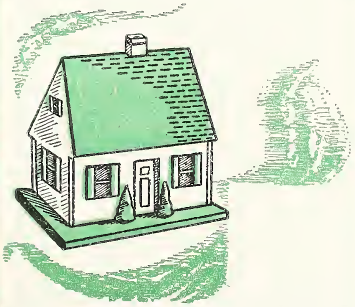

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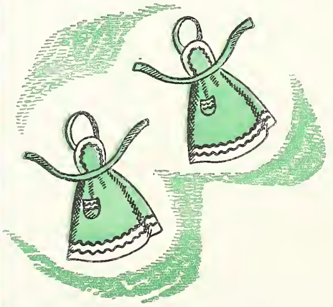

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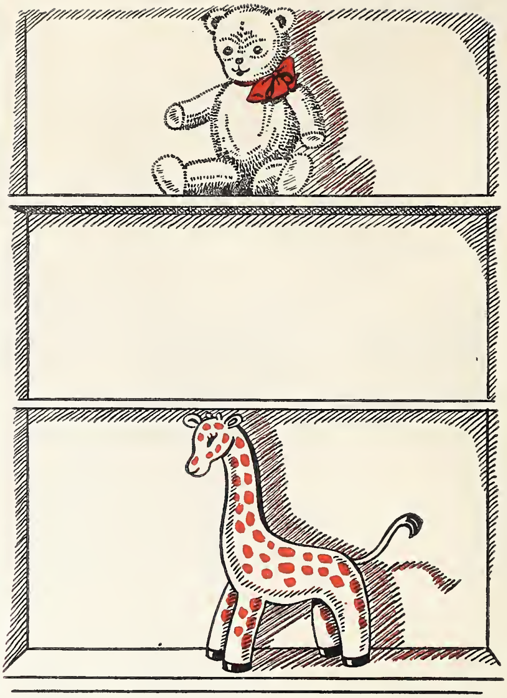

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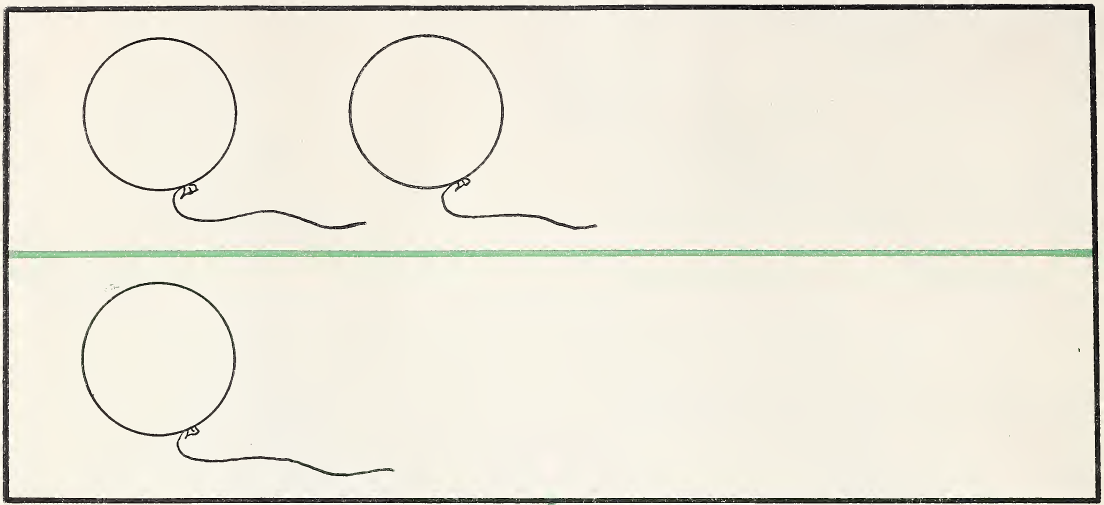

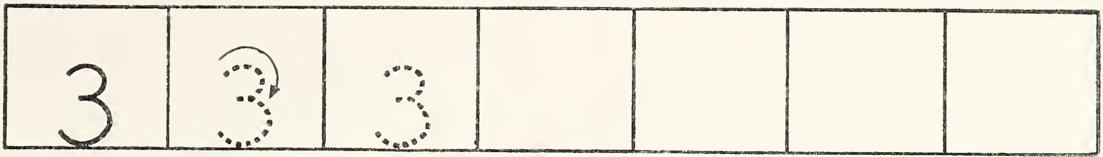
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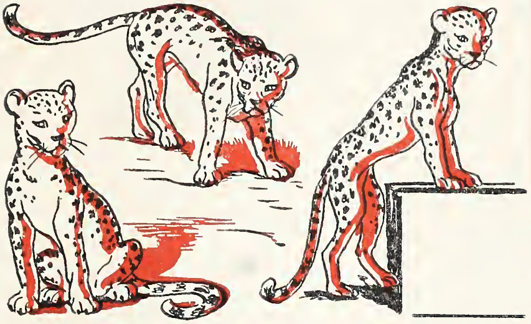

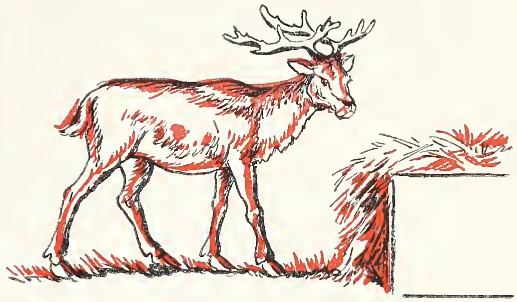

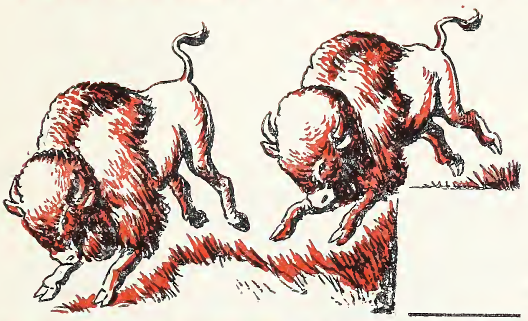

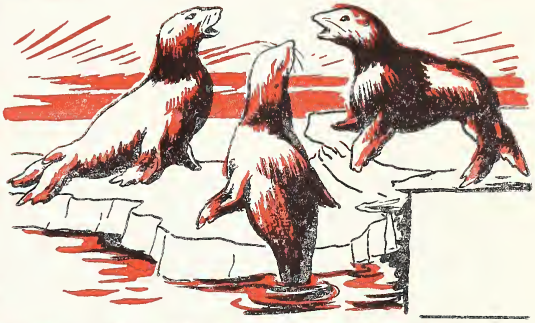

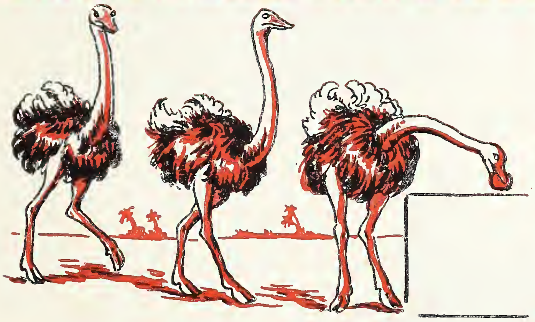

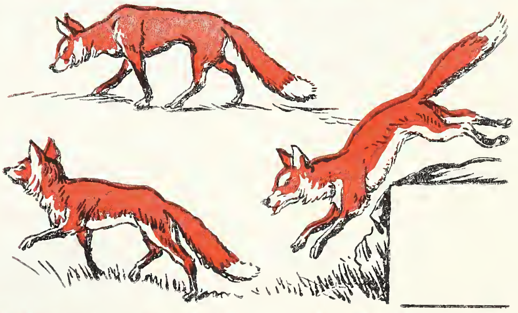

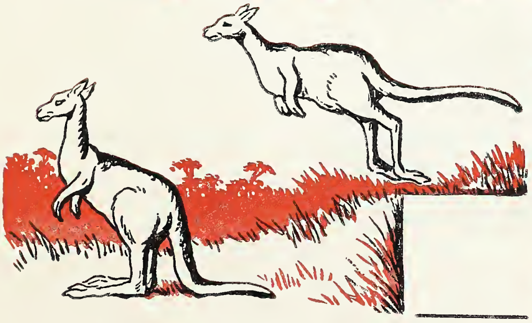

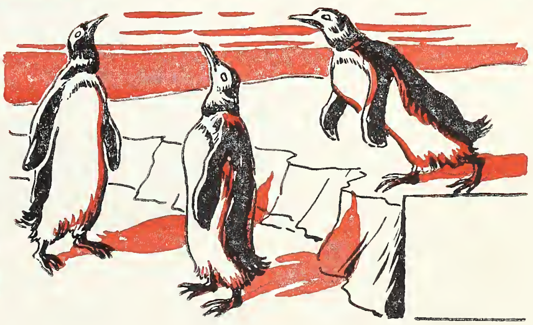

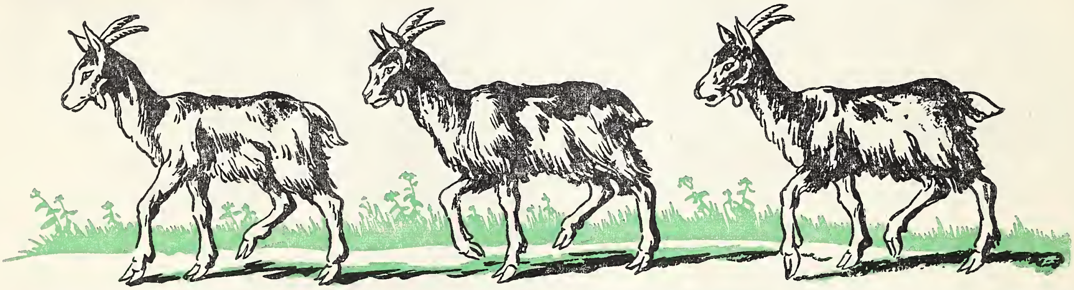

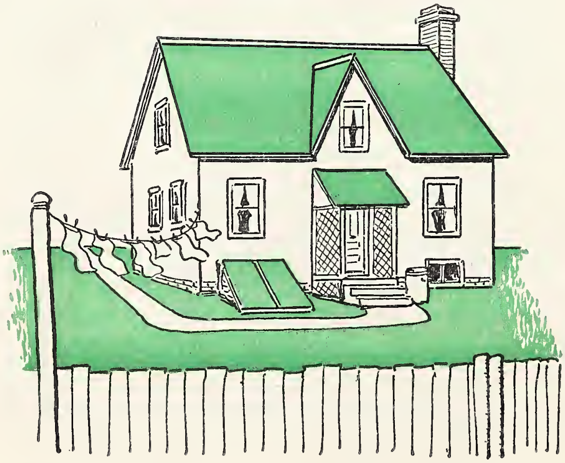

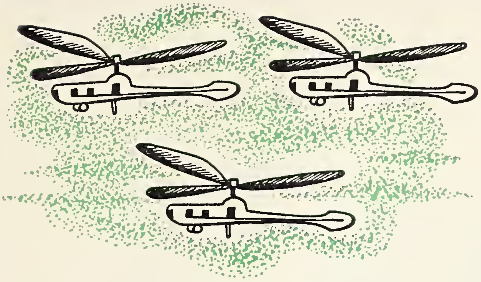

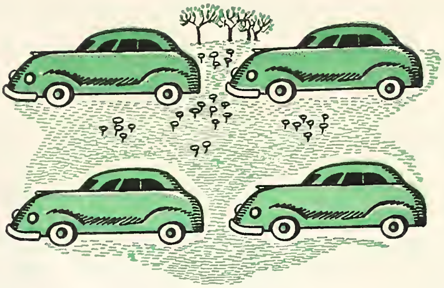

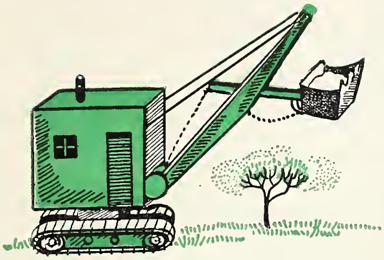

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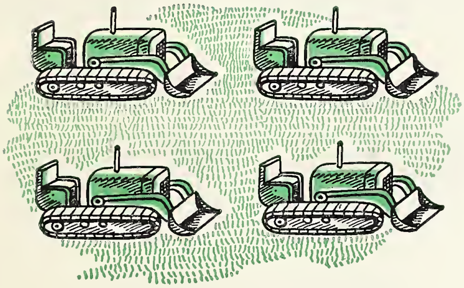

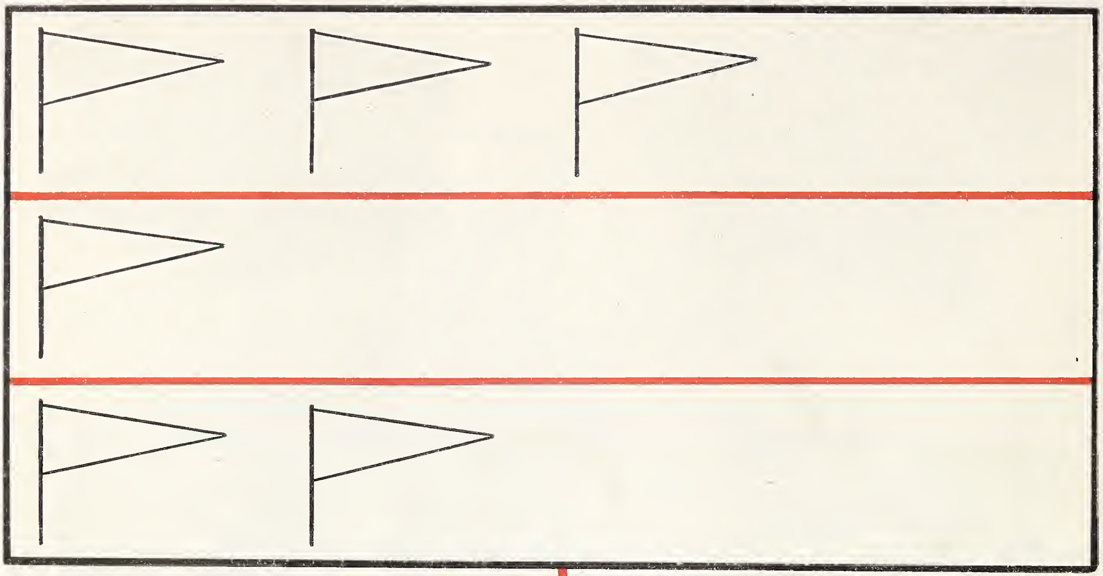

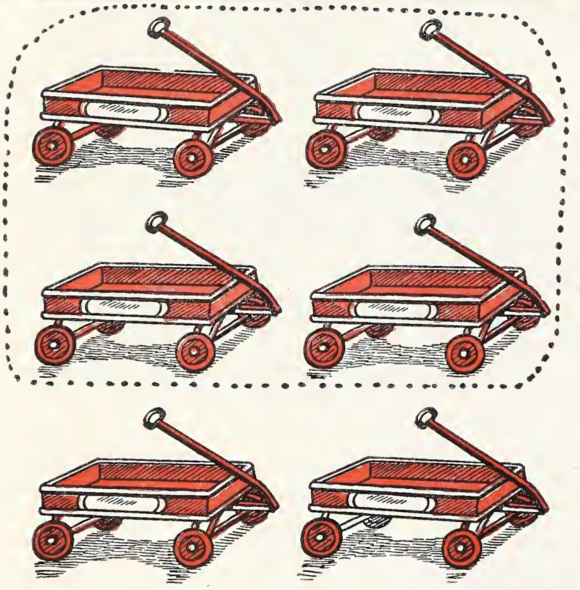

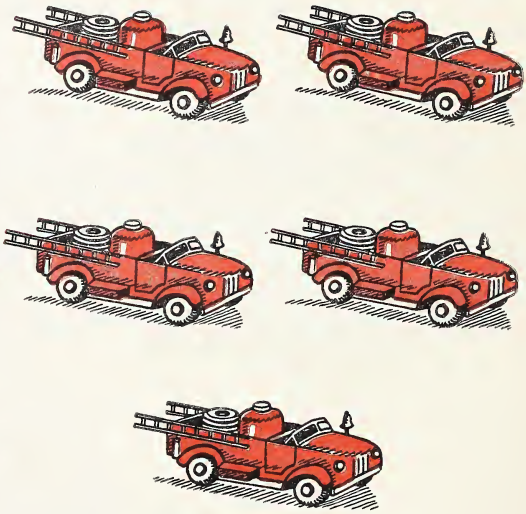

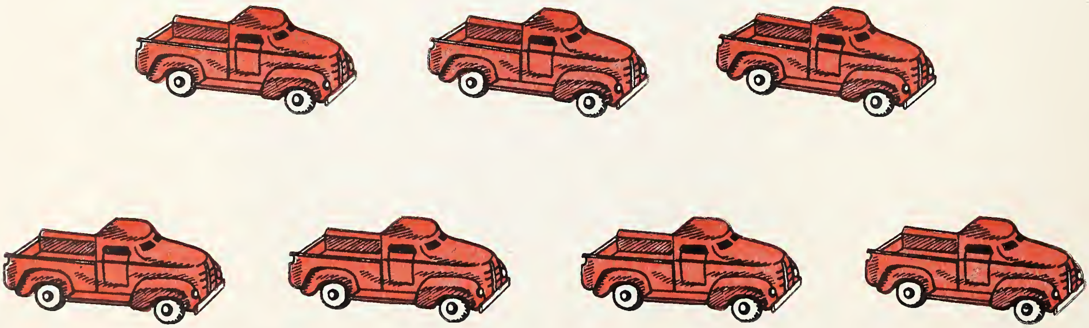

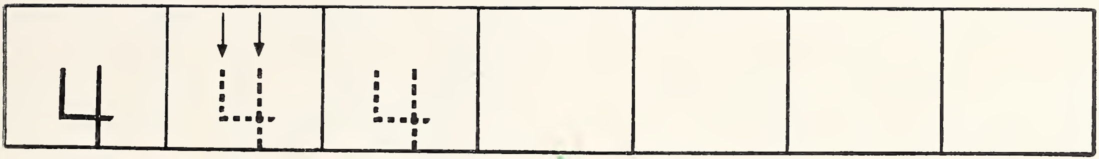
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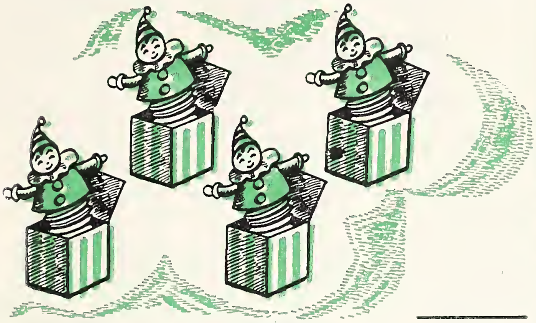

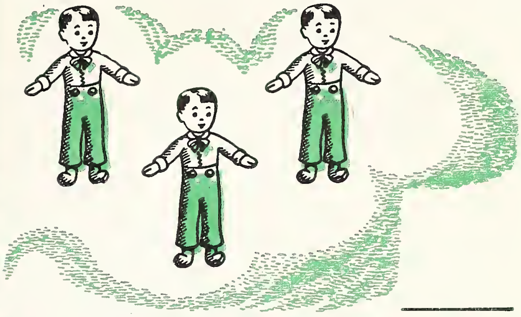

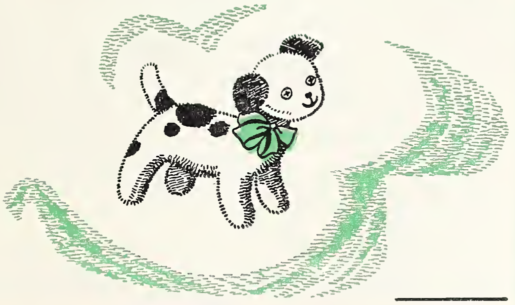

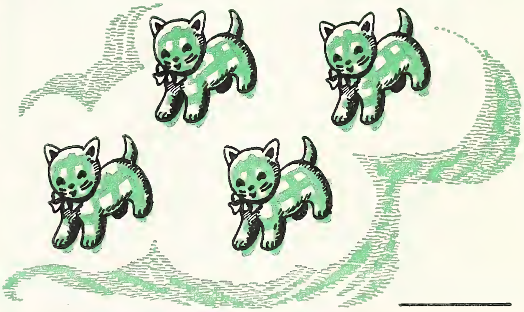

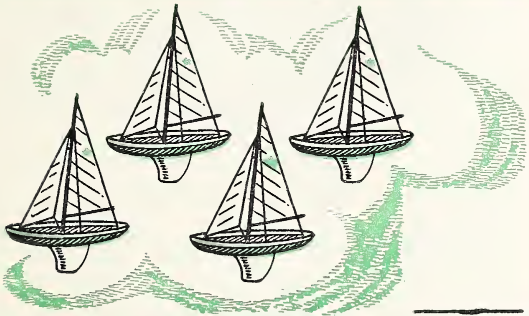

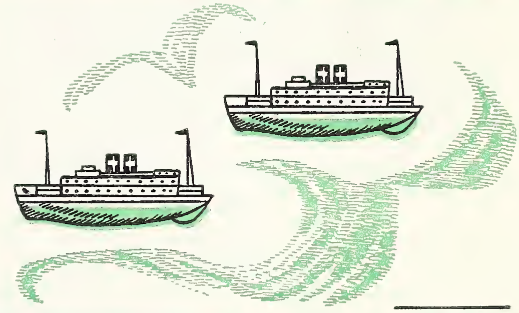

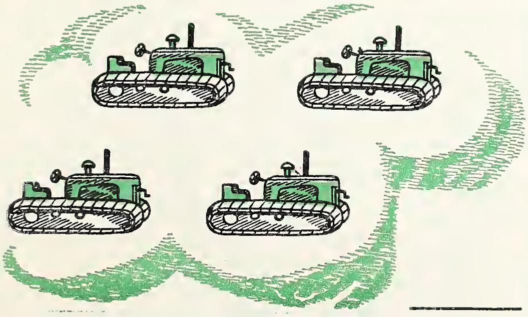

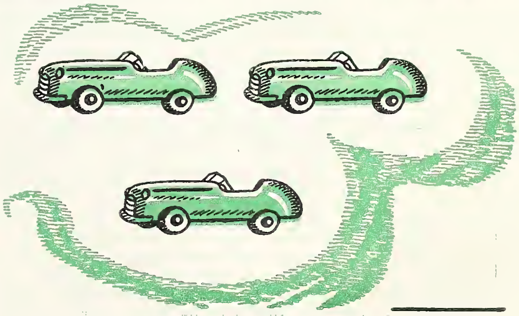

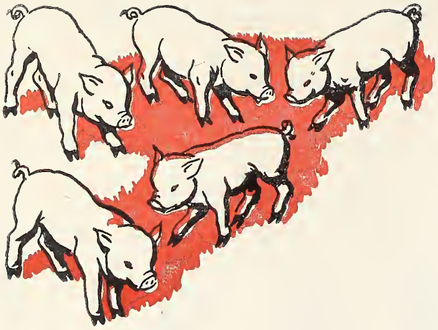

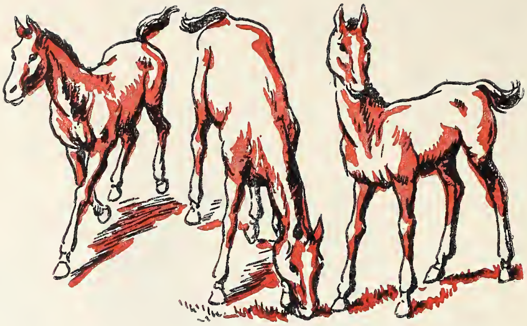

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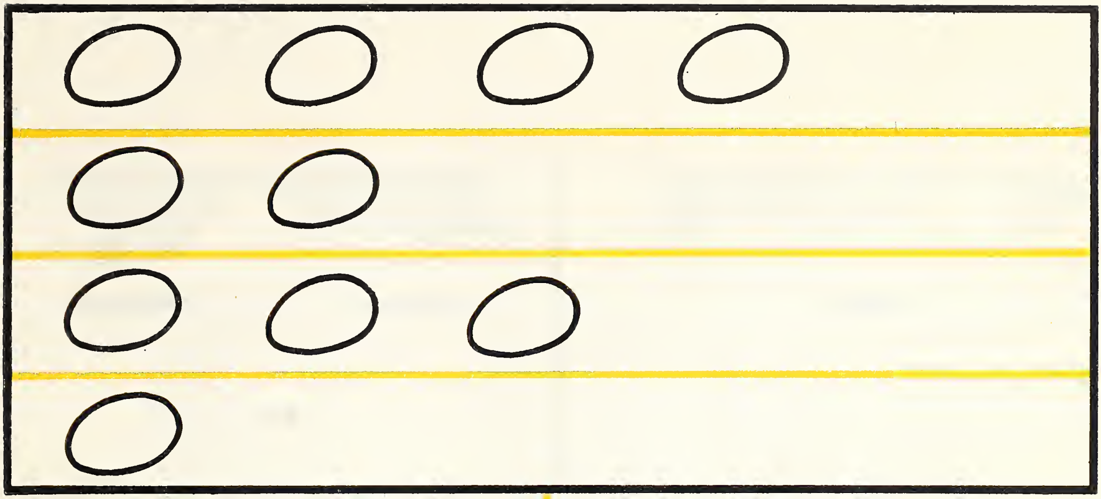

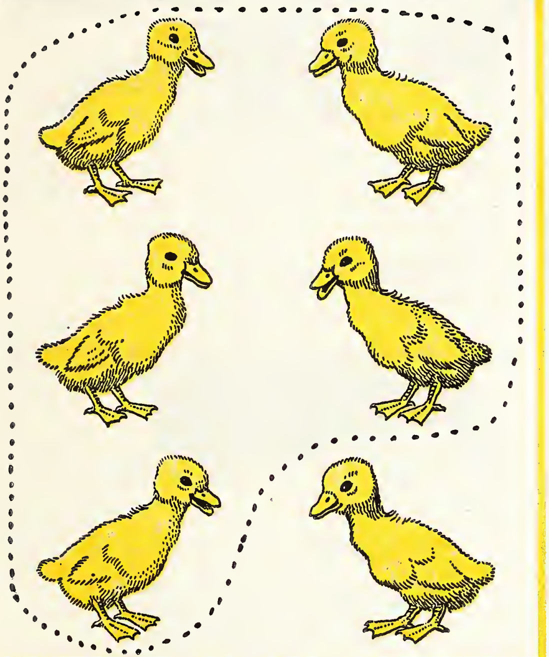

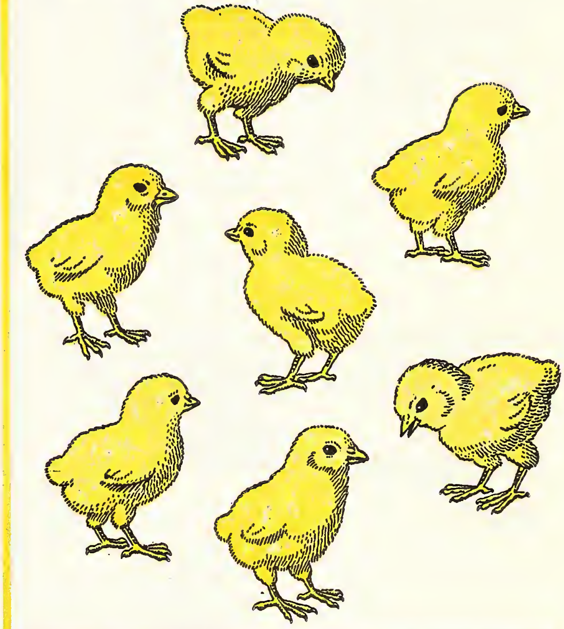

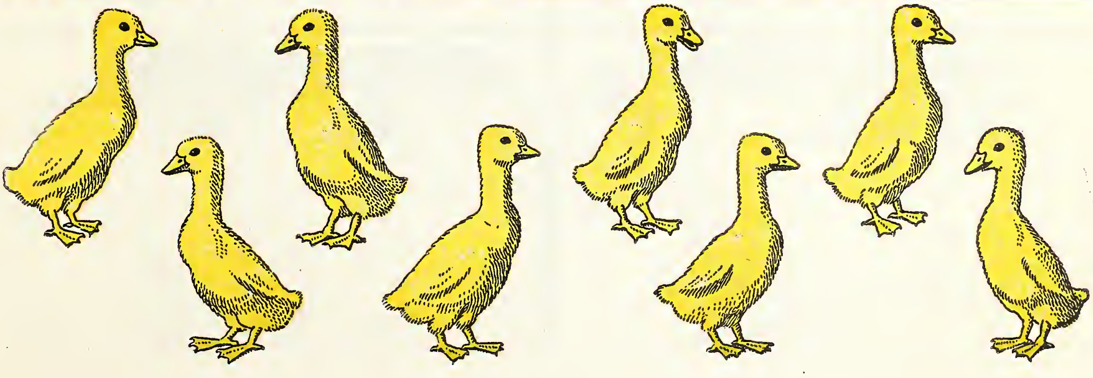

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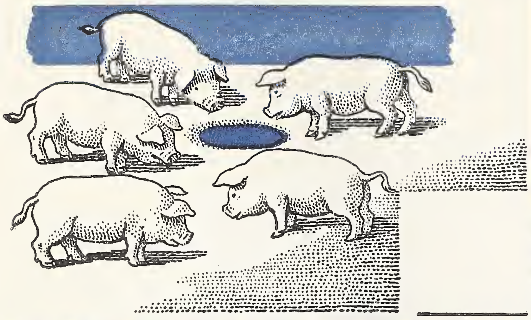

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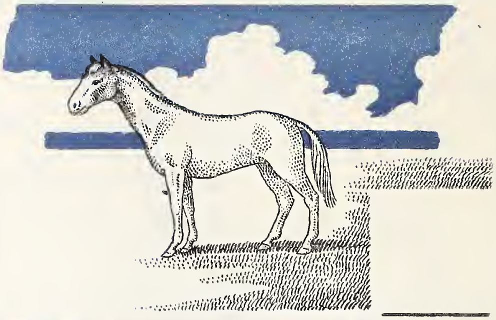

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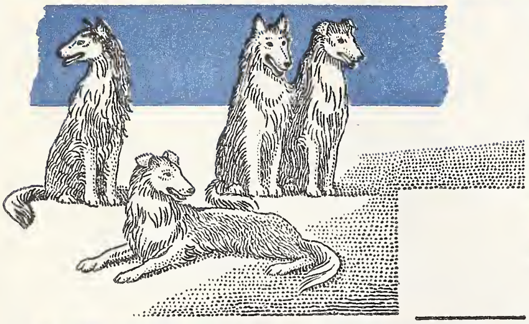

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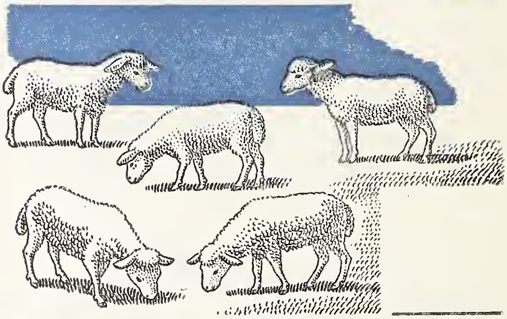

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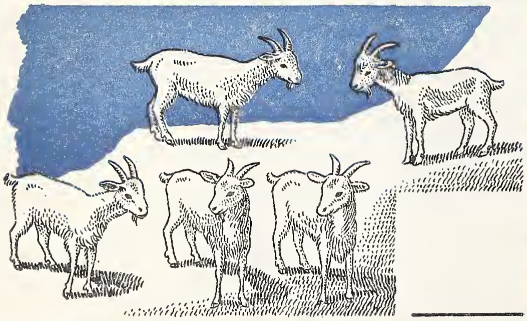

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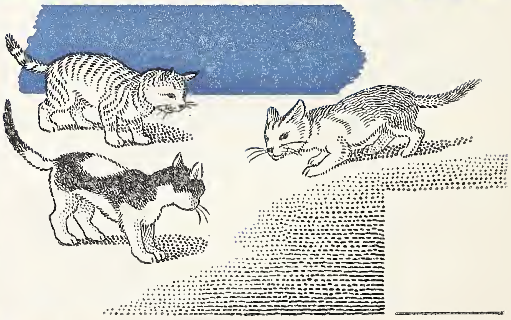

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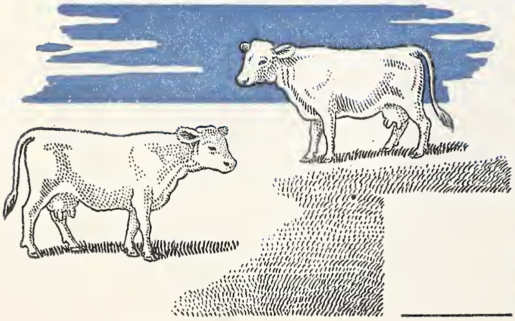

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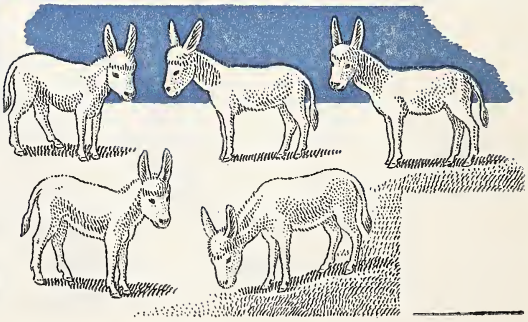

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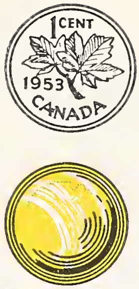
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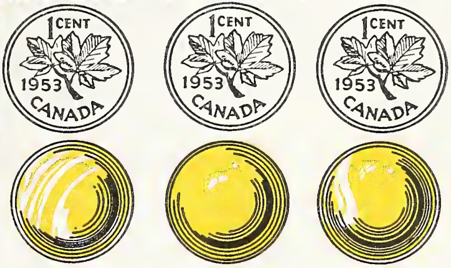
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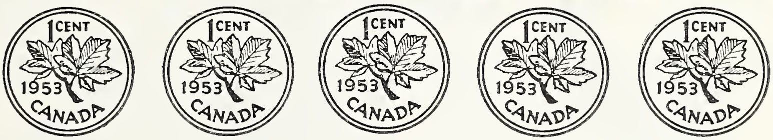
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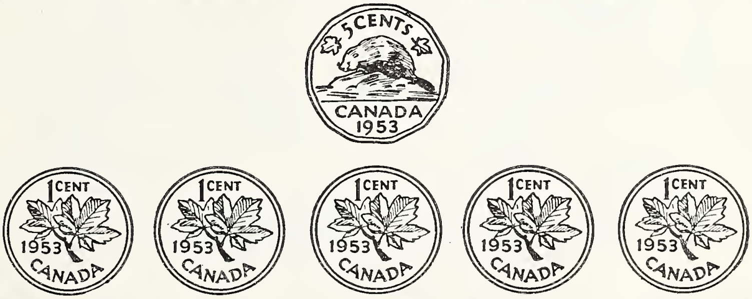
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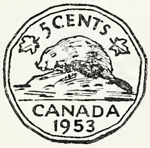
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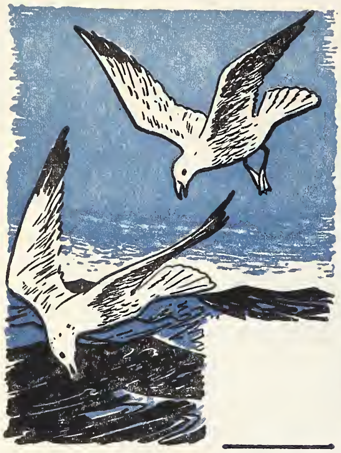

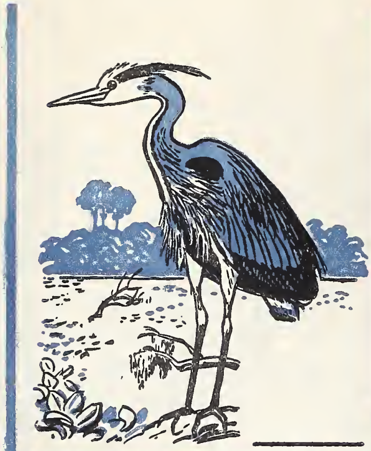

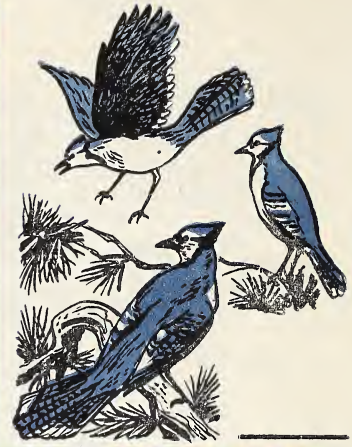

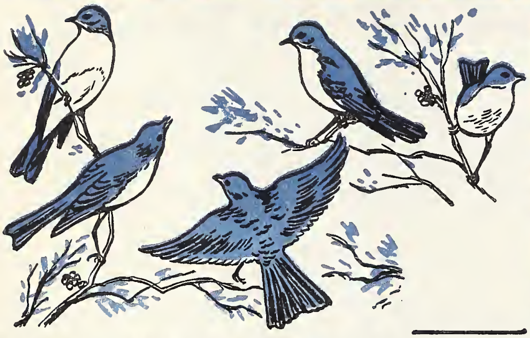

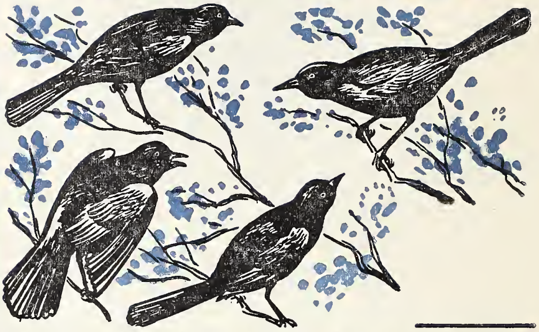

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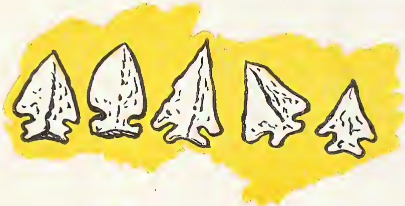

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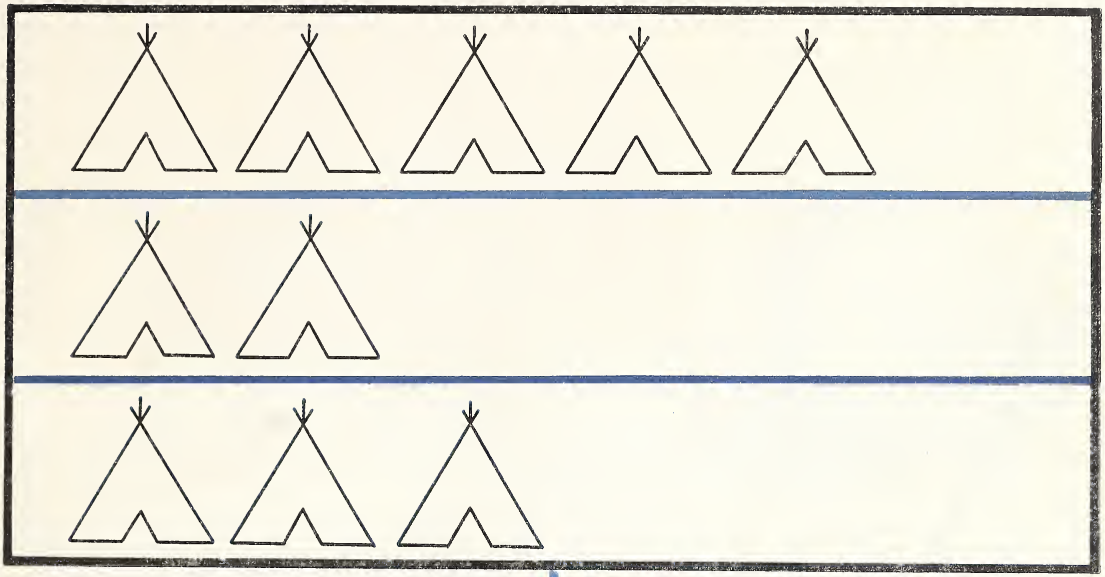

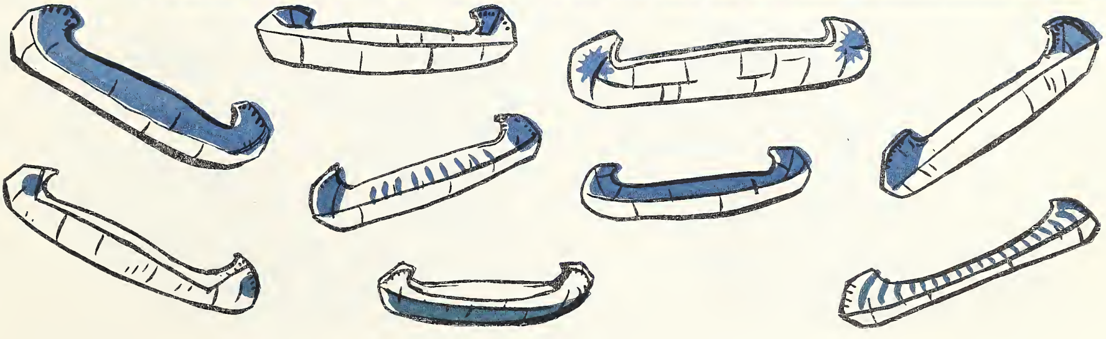

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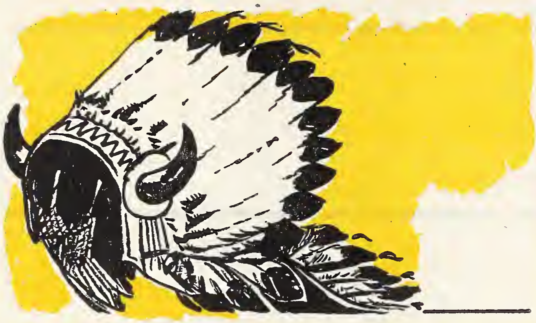

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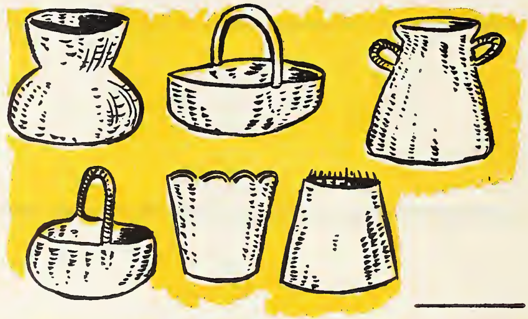

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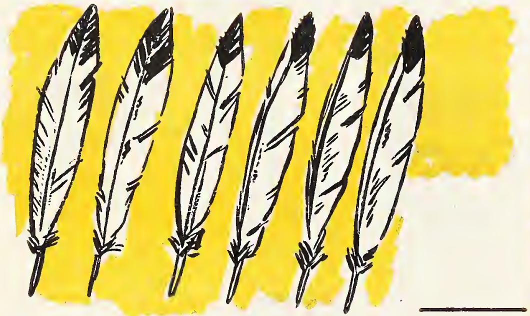

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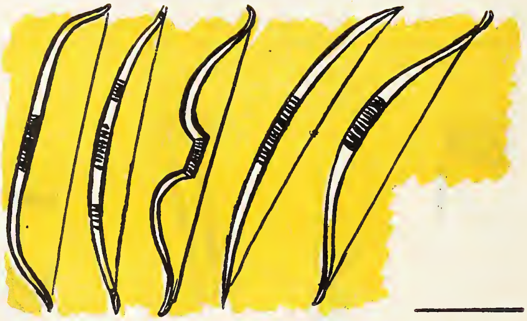

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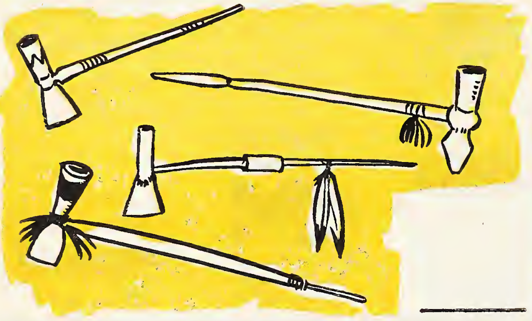

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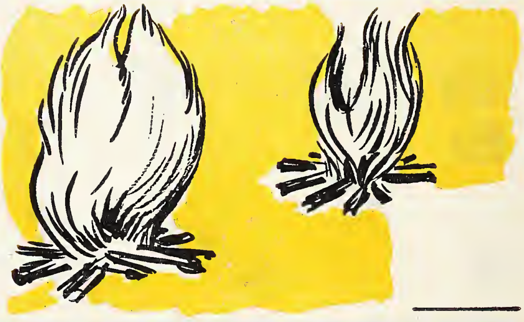

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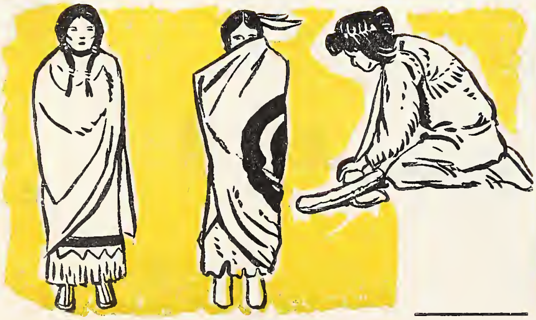

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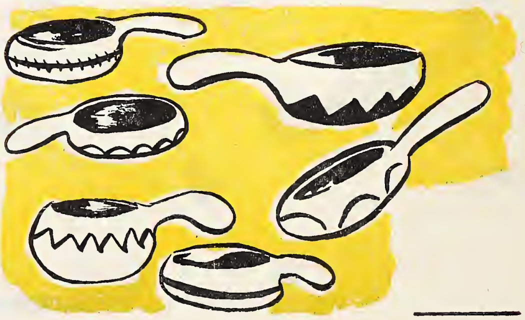

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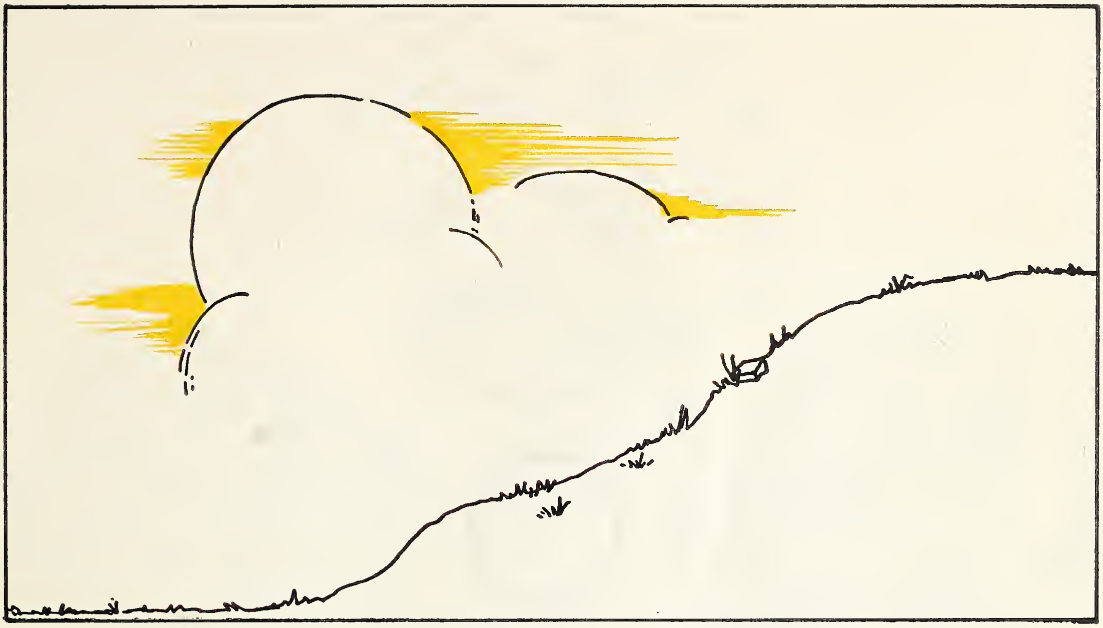

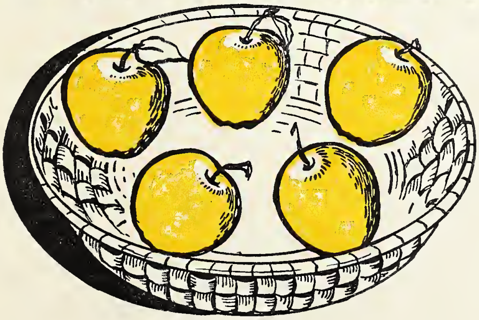

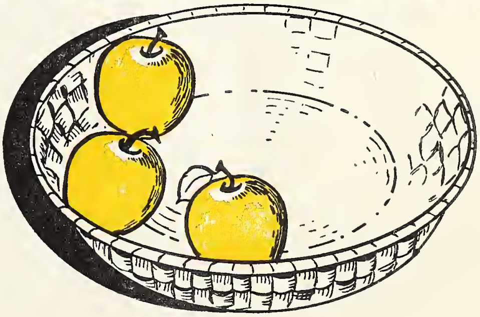

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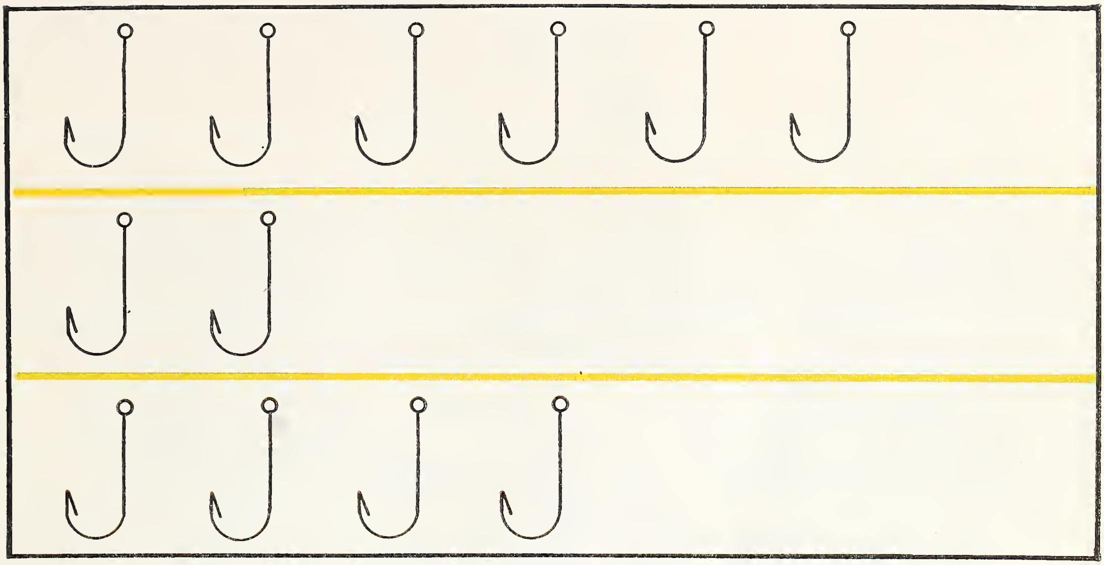

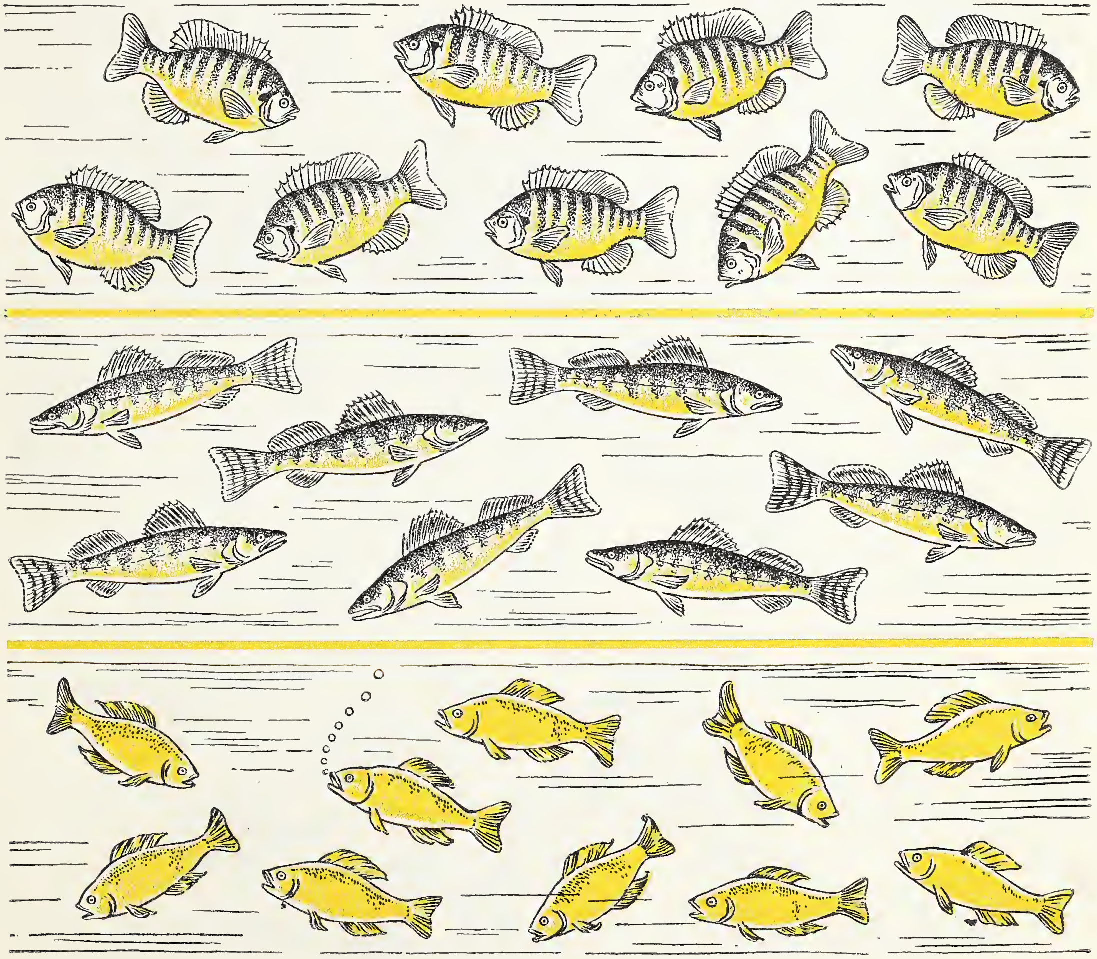

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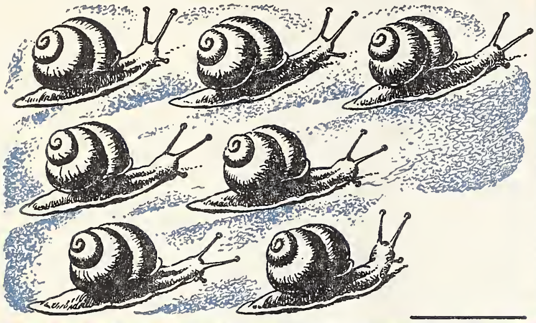

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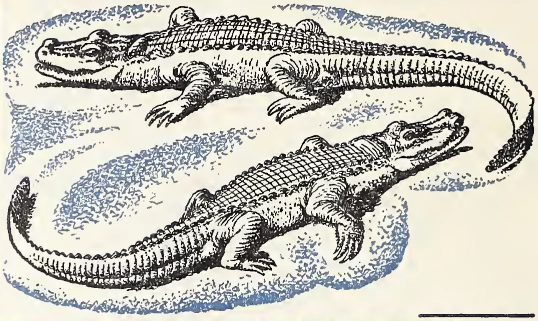

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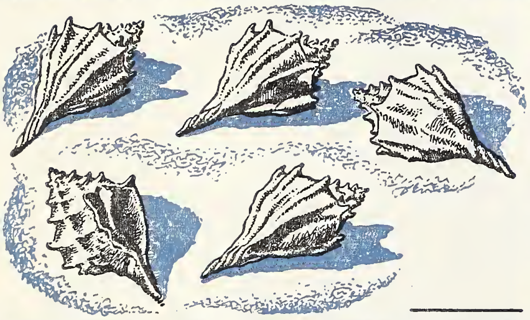

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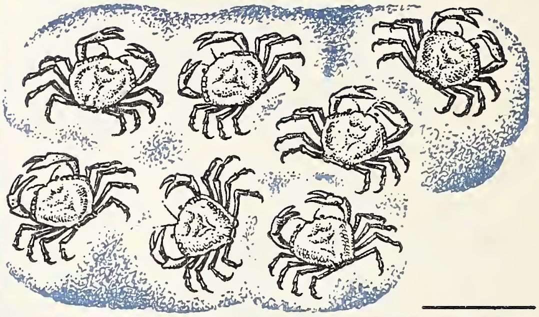

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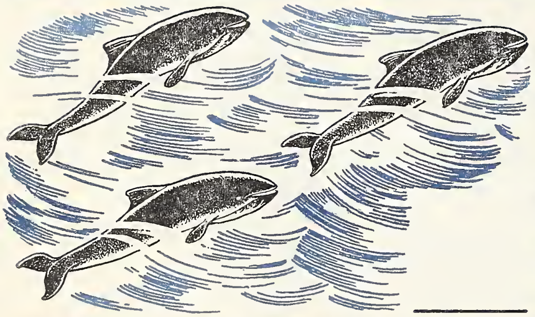

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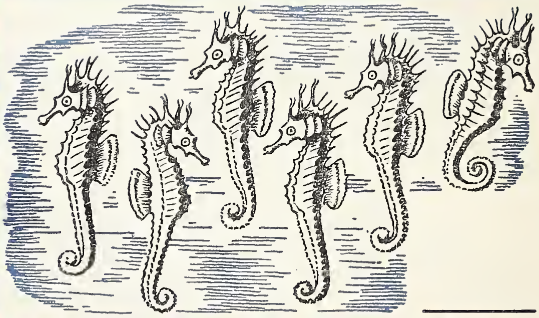

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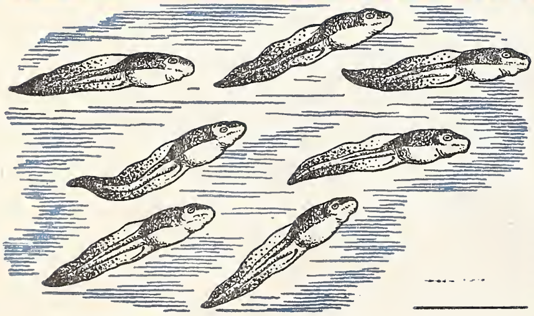

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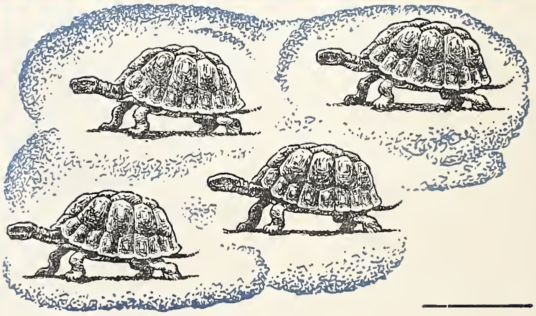

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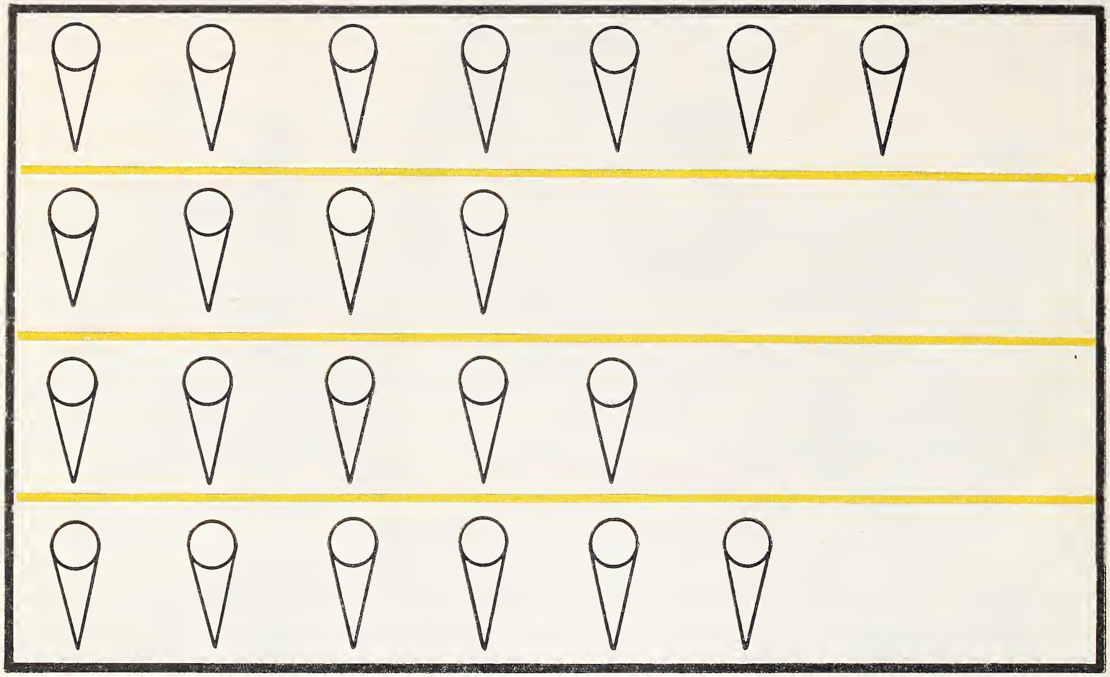
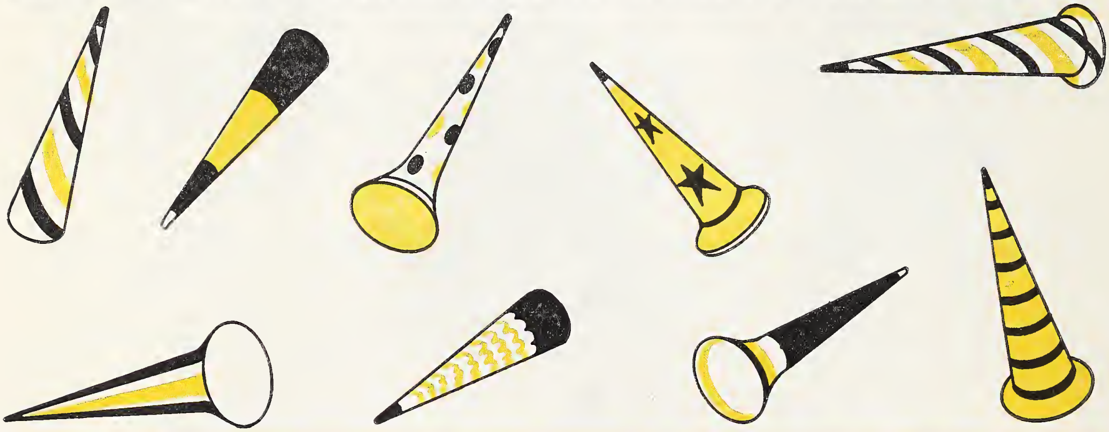
HAPPY BIRTHDAY
Happy Birthday
8





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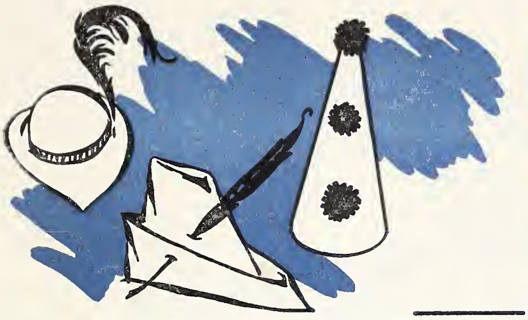

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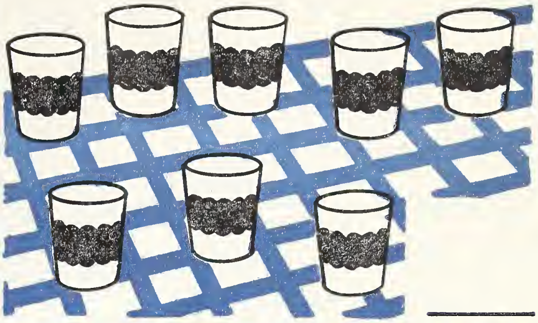

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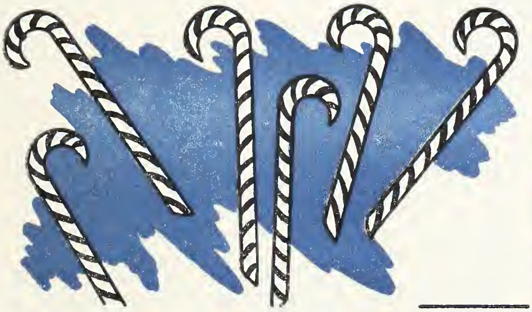

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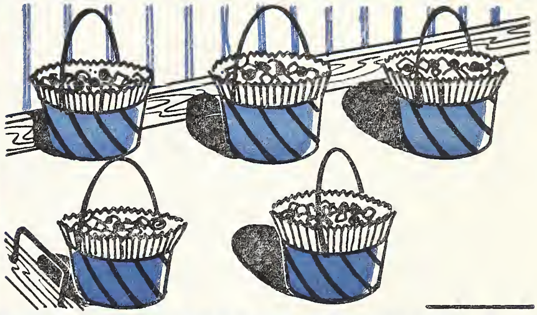

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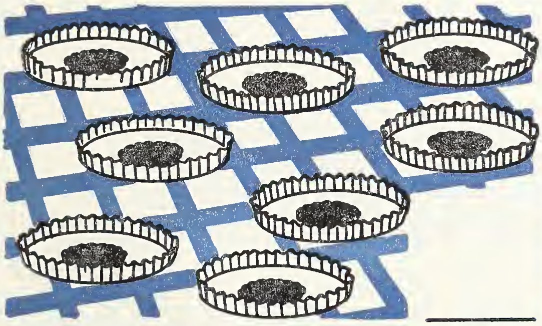

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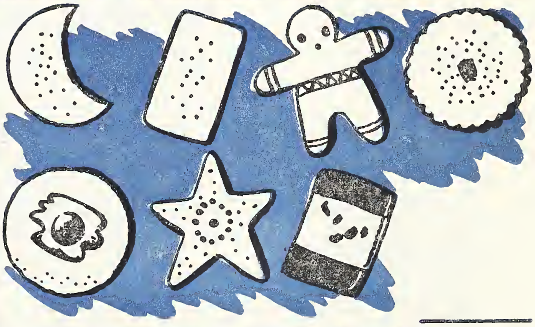

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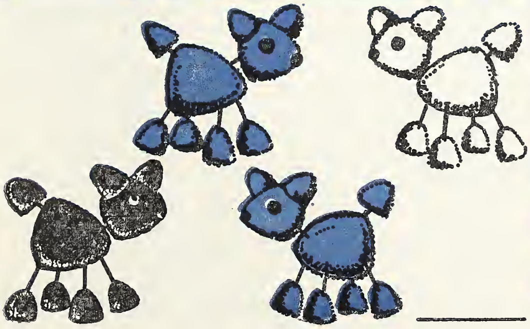

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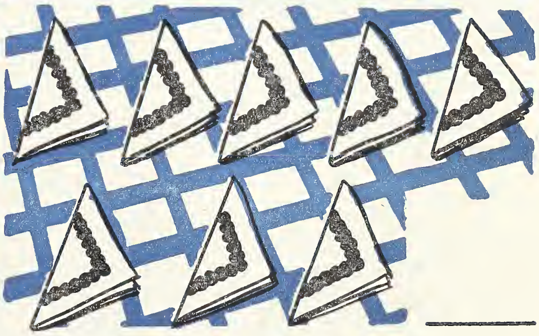

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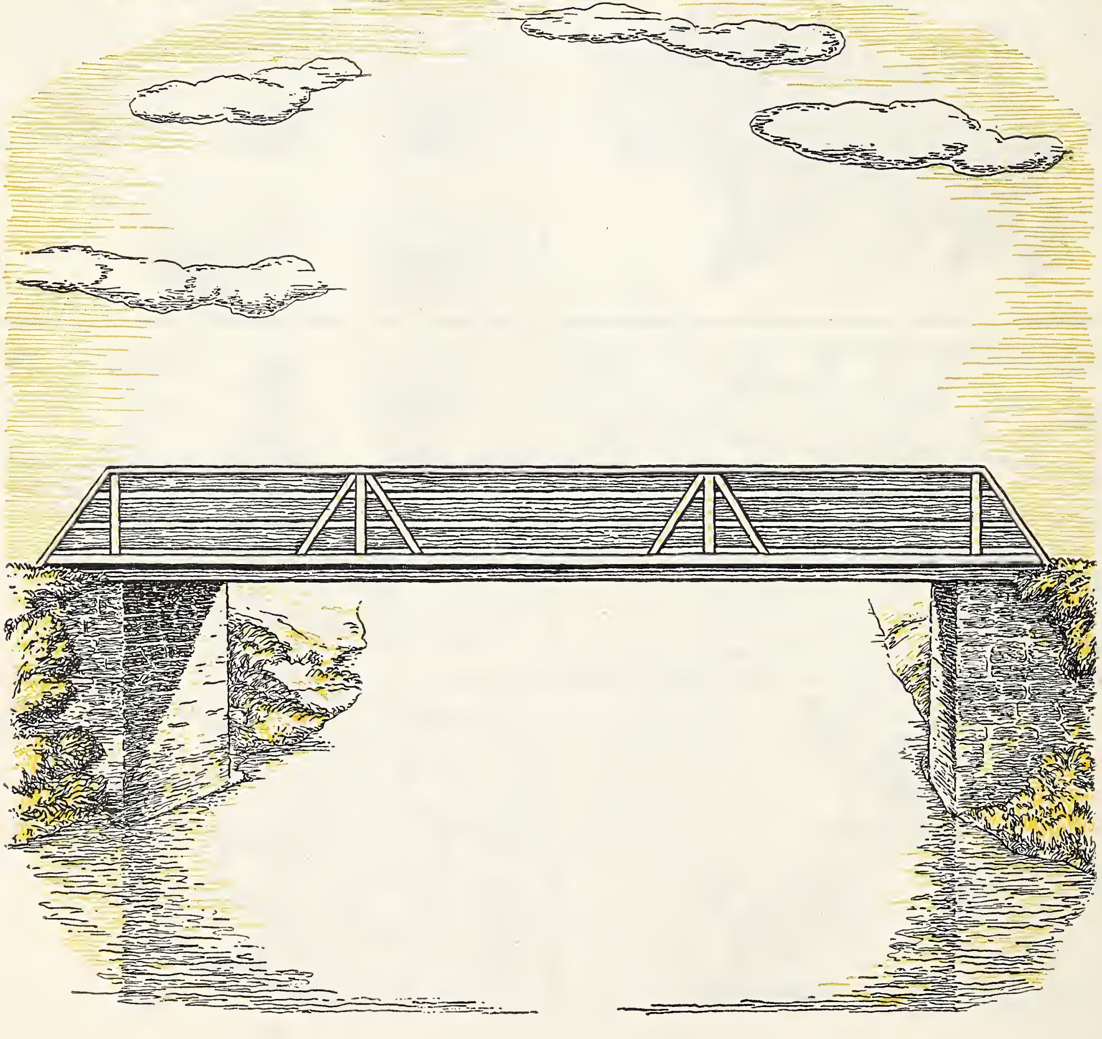

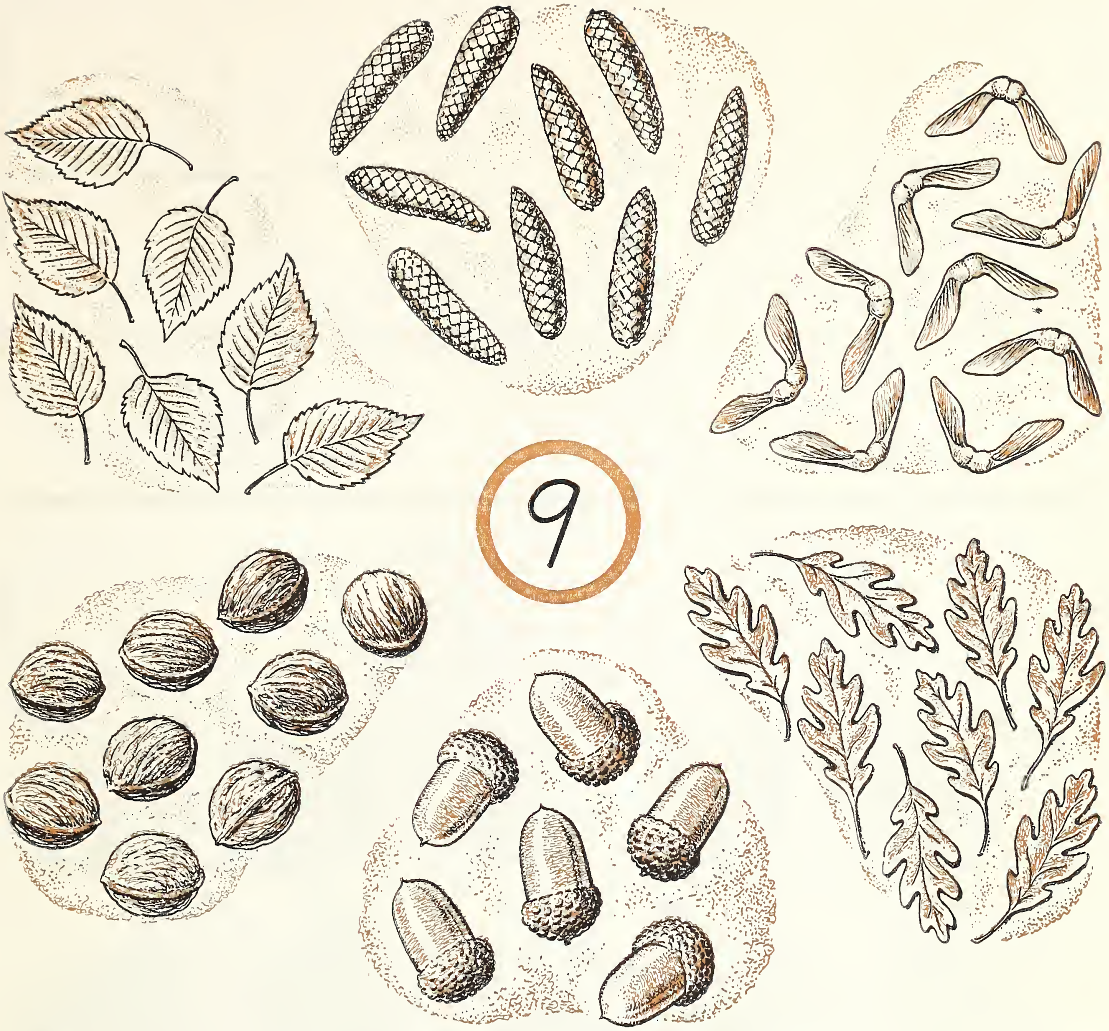
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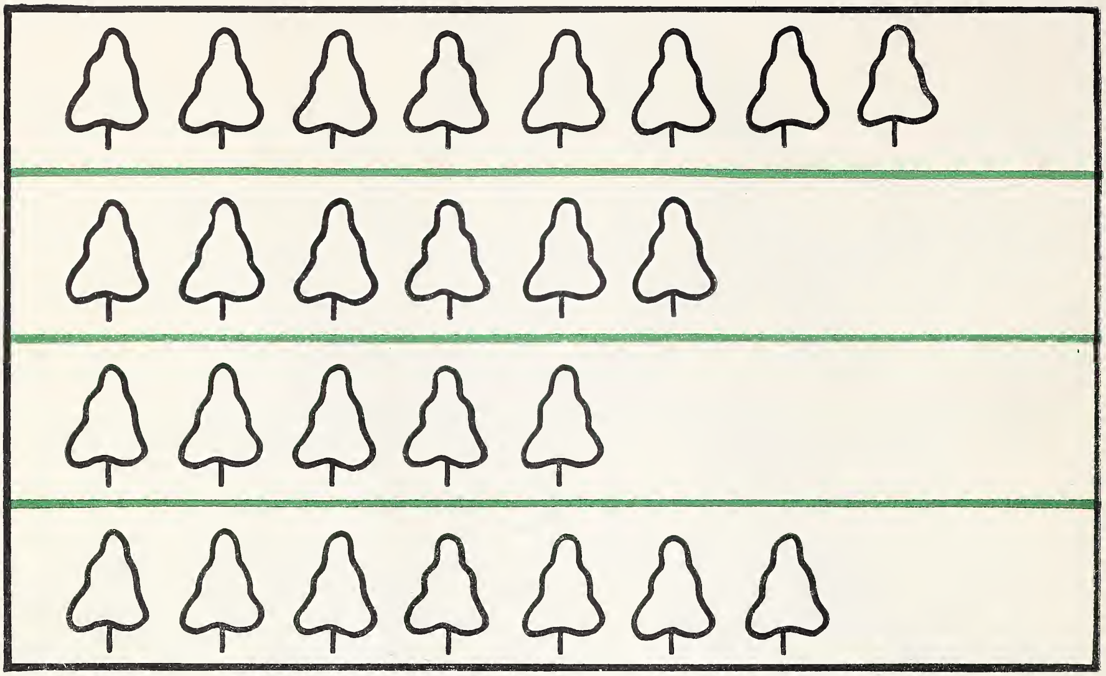

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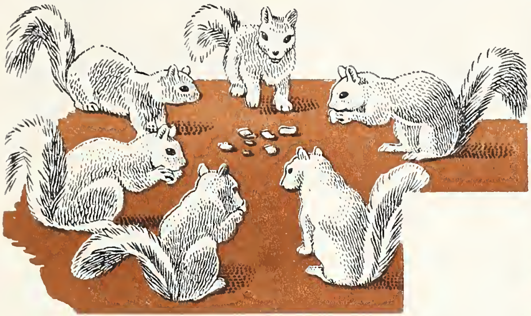

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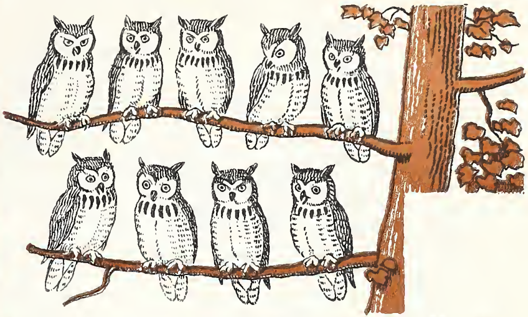

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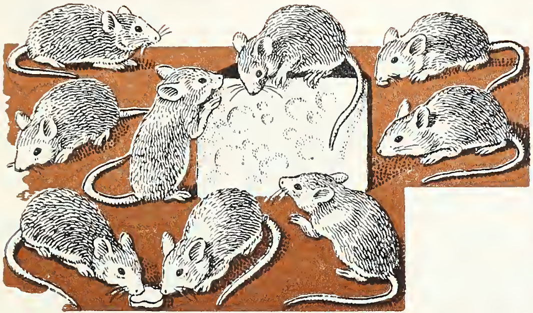

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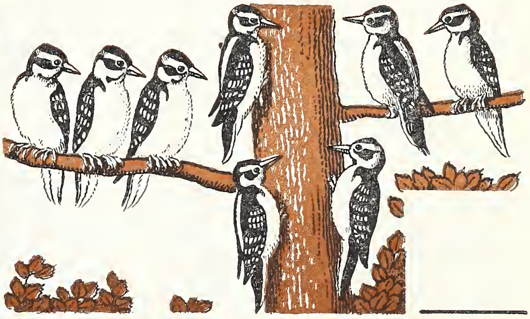

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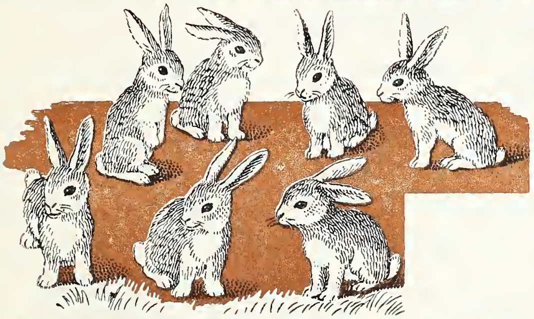

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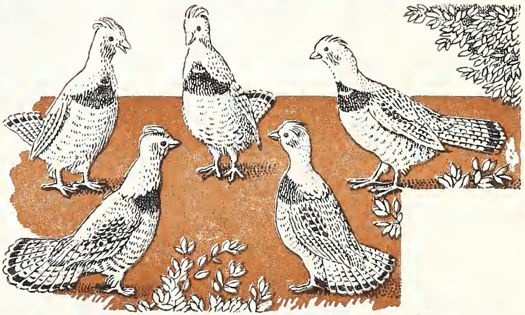

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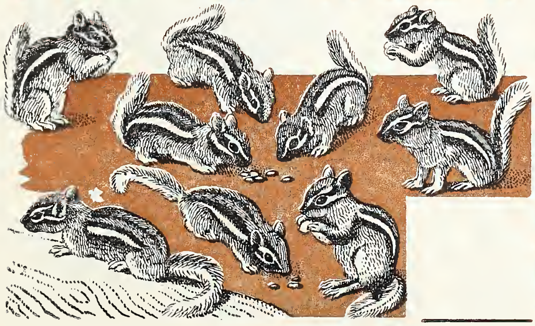

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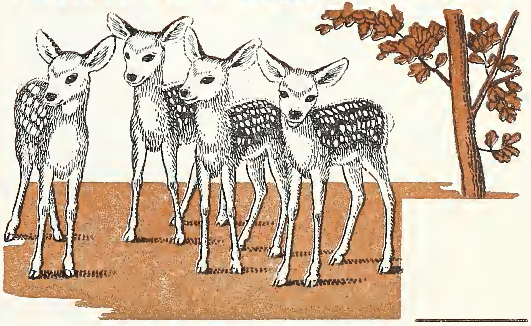

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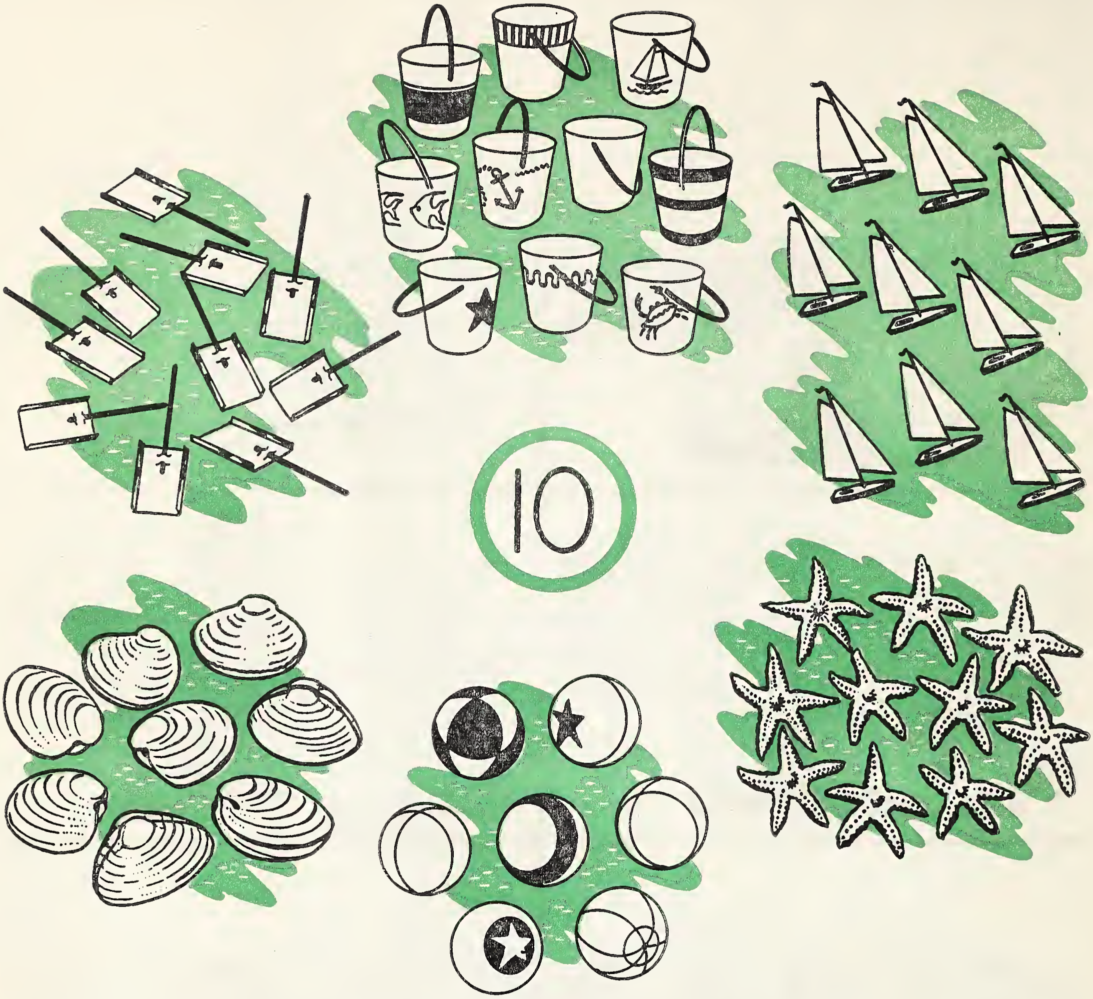
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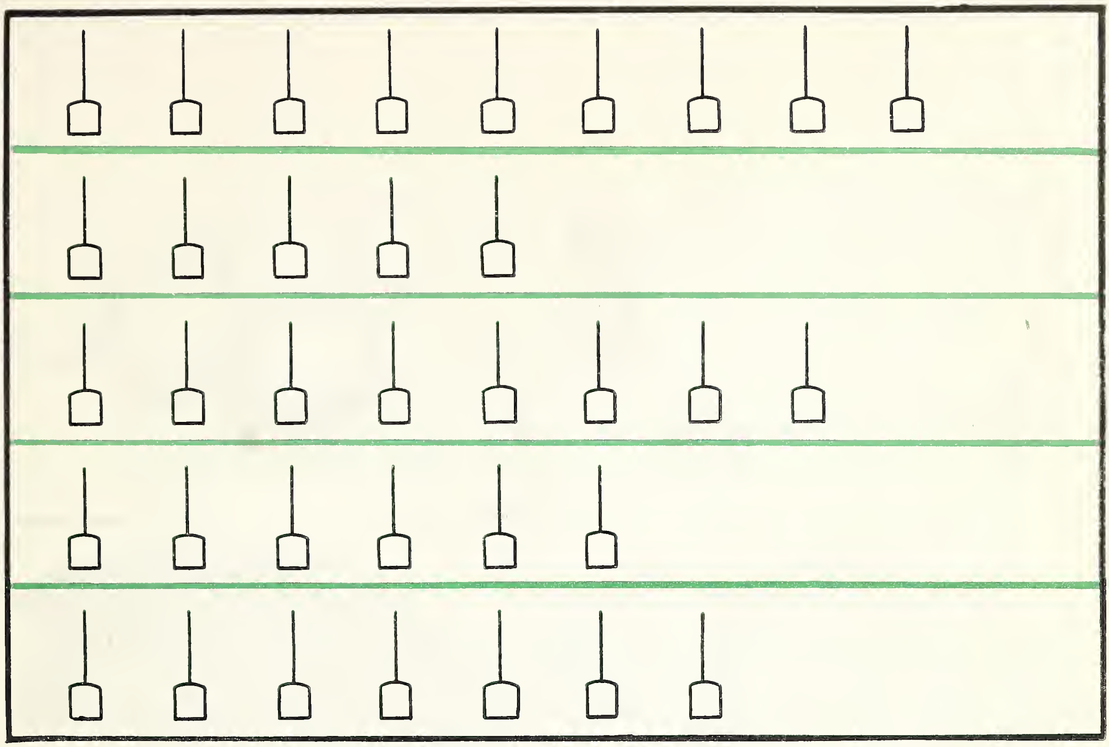

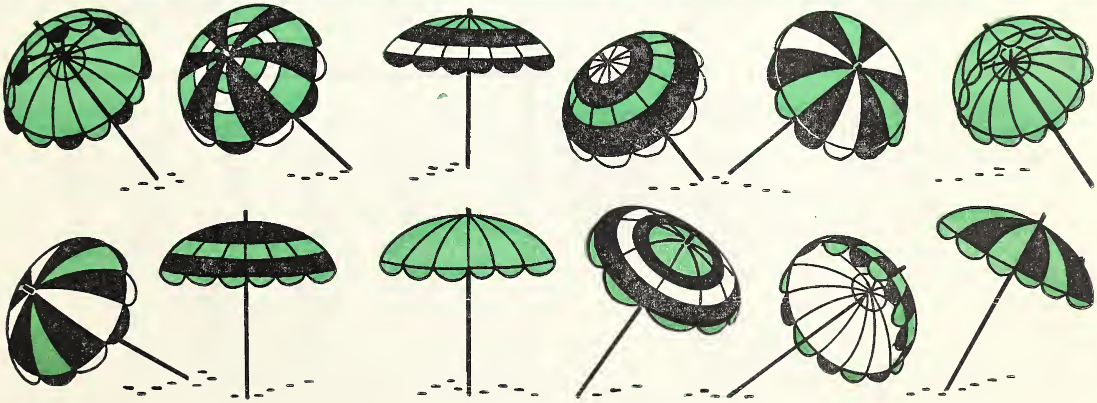

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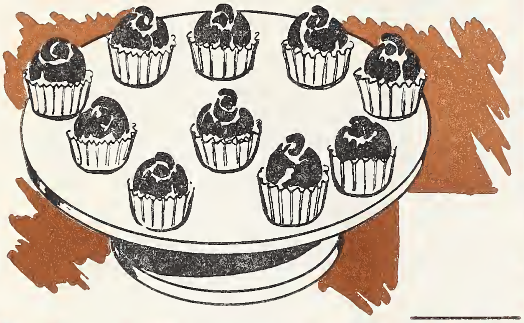

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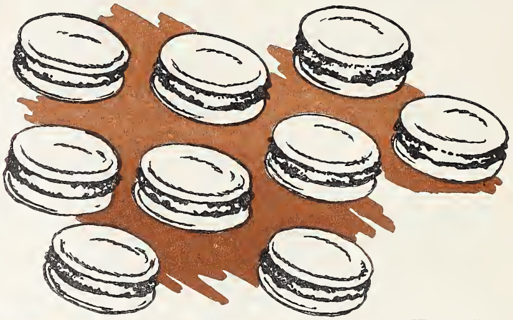

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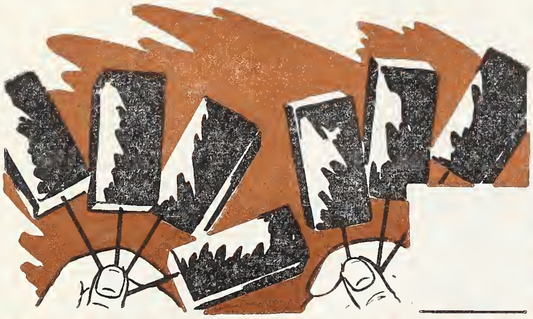

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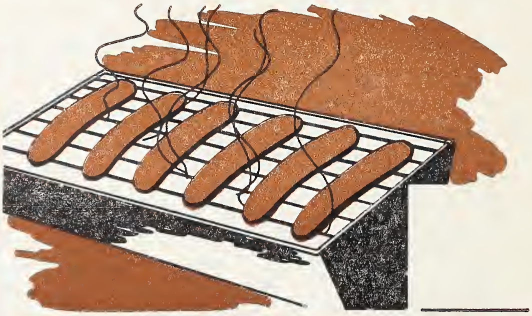

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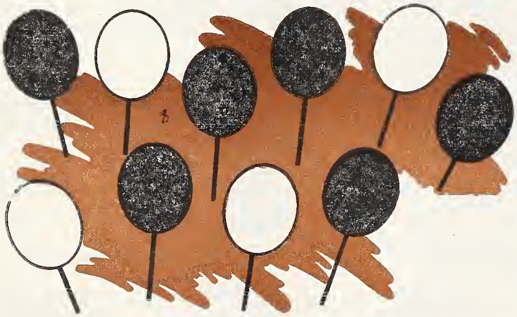

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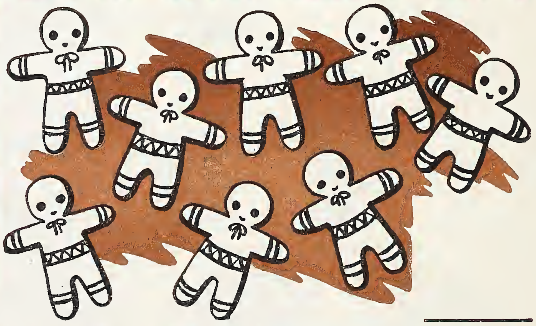

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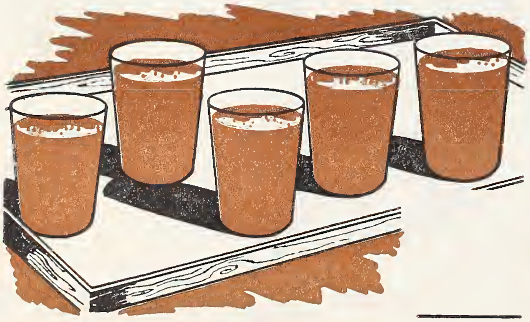

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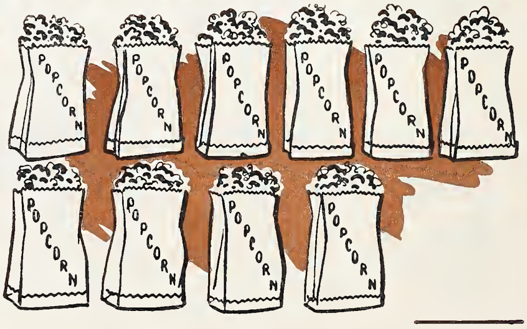
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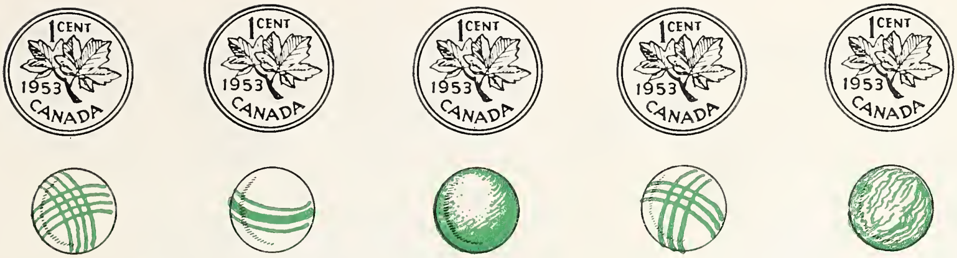
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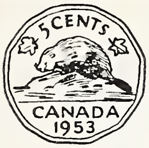
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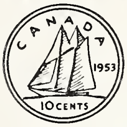
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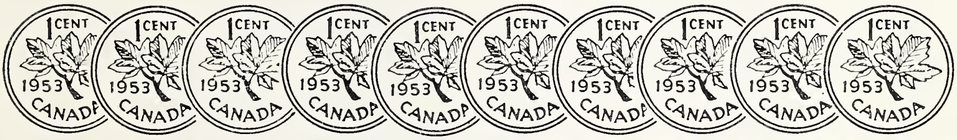
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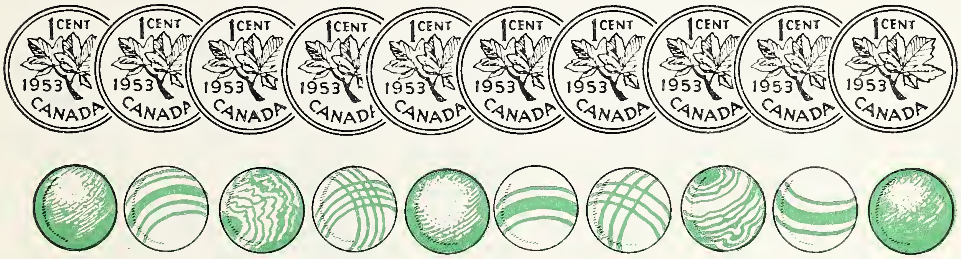
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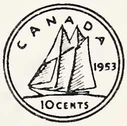
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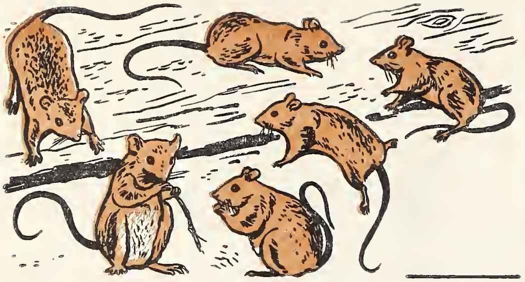

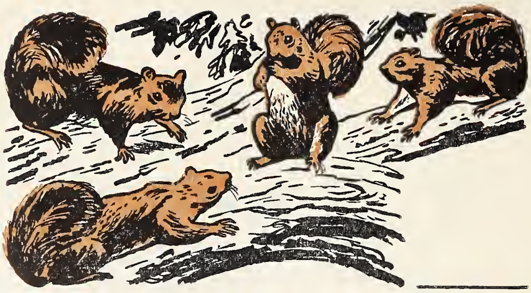

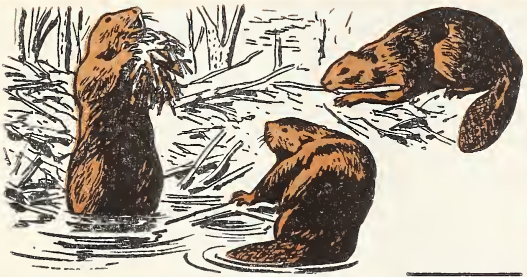

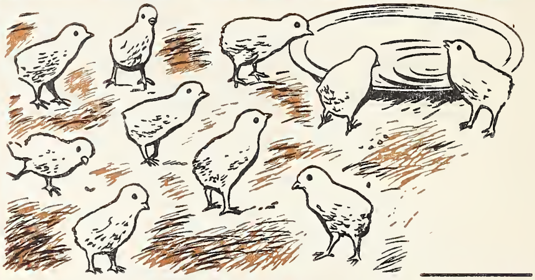

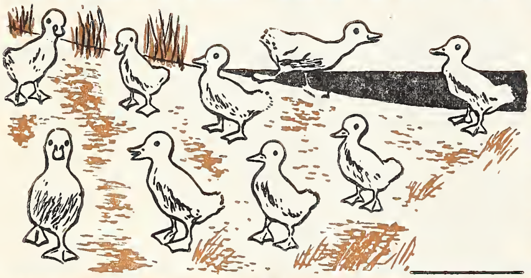

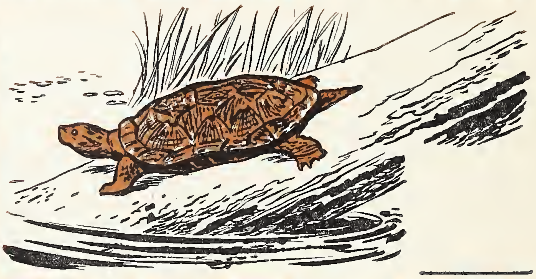

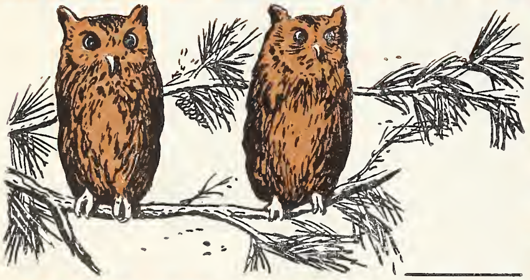

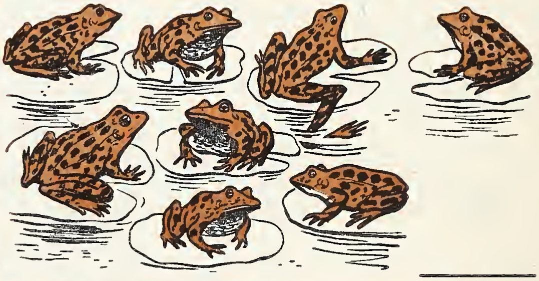

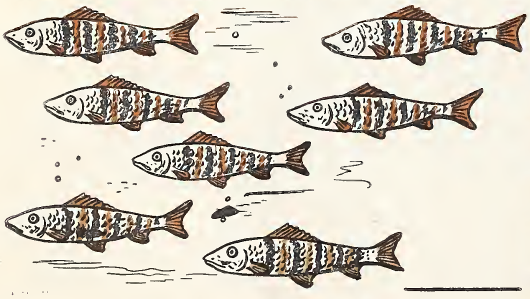

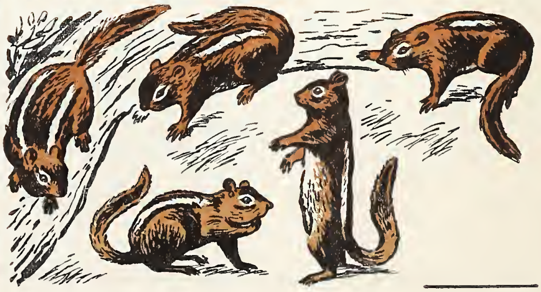

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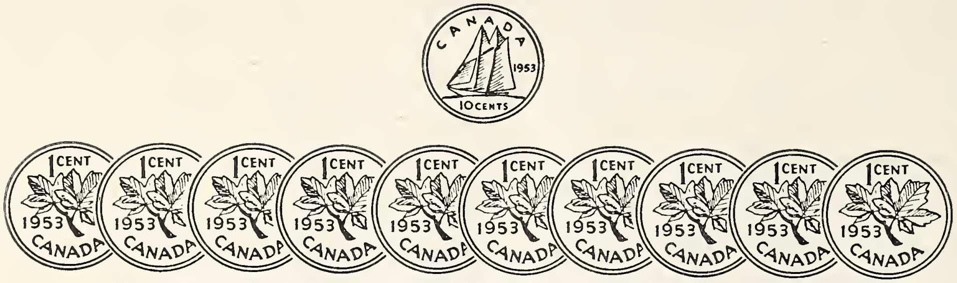

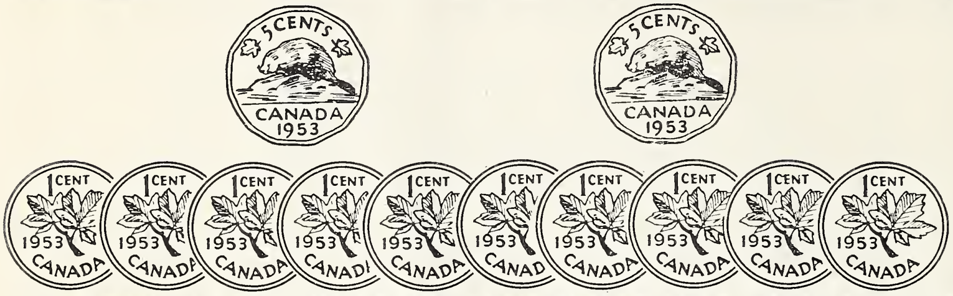

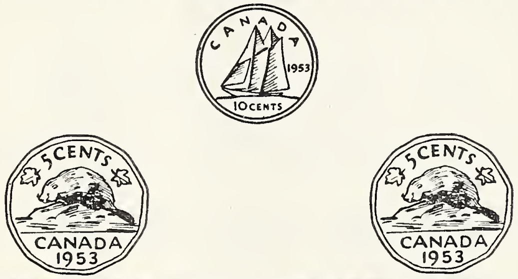

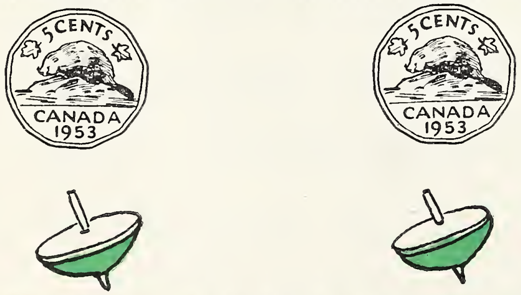

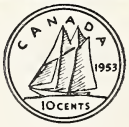

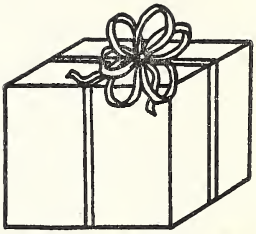

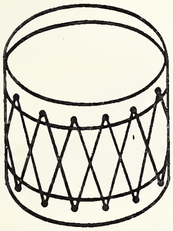

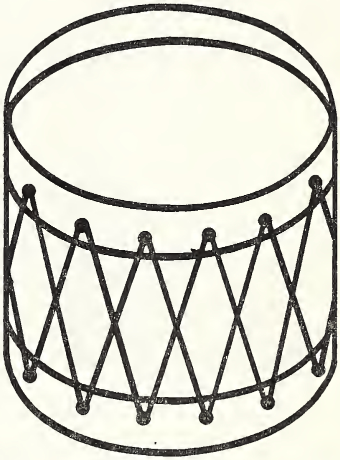

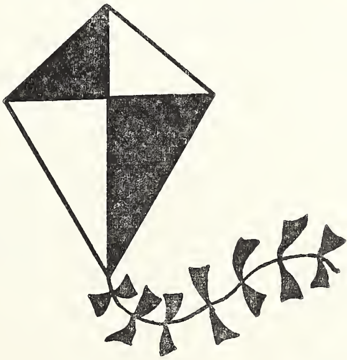

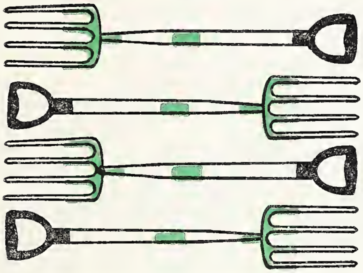

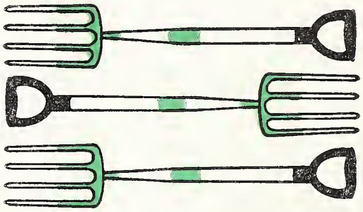

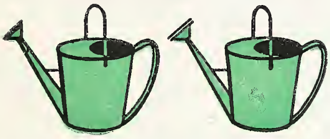

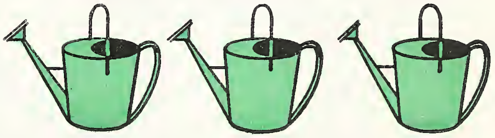

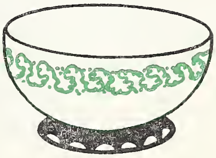

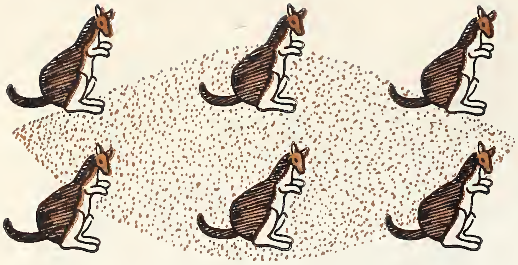

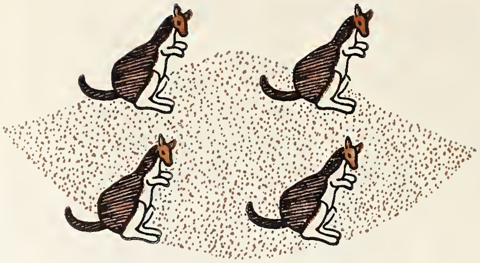

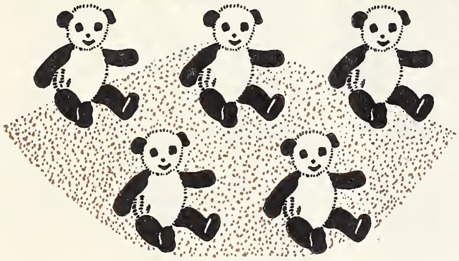

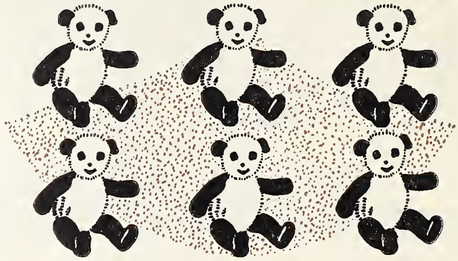

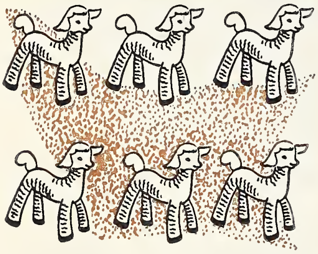

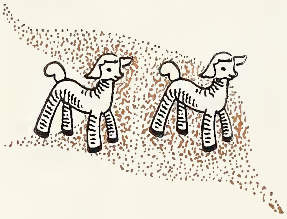

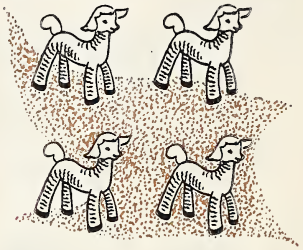

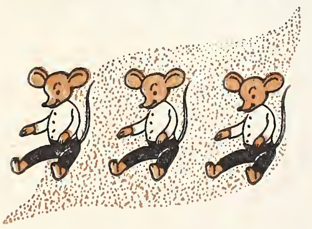

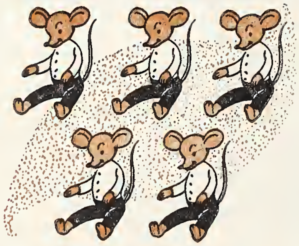

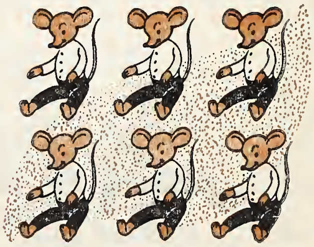

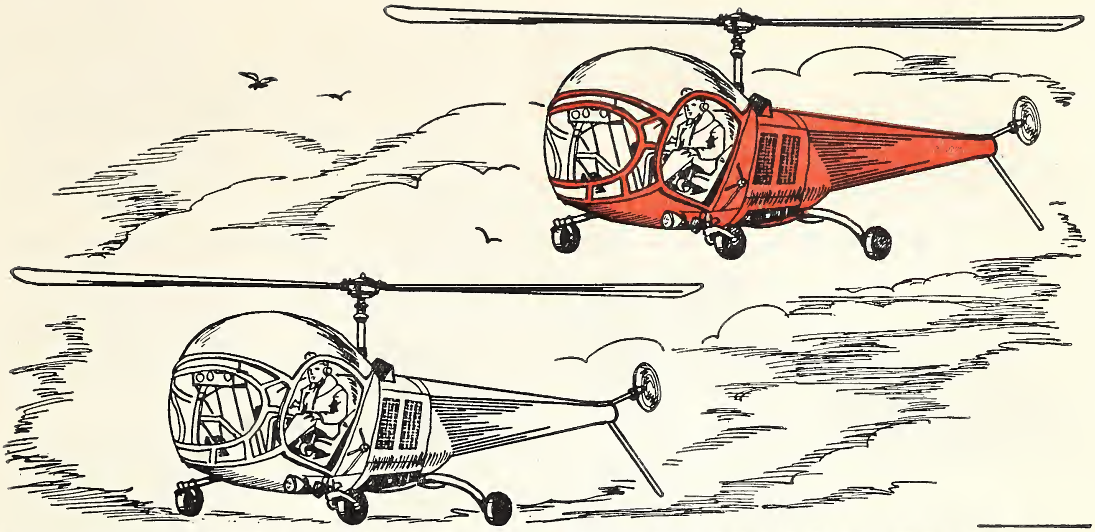

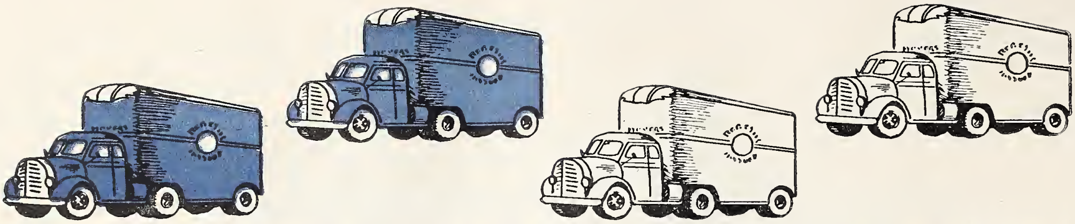

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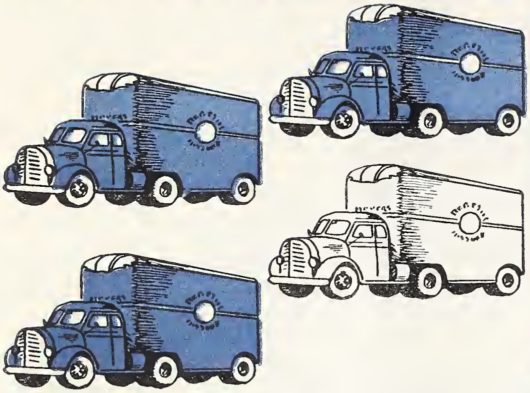

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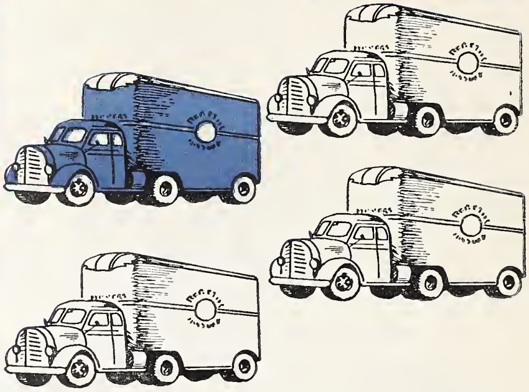

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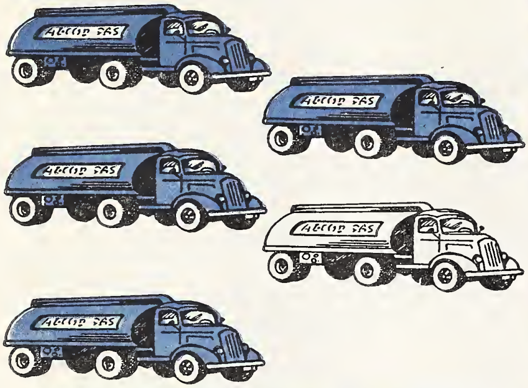

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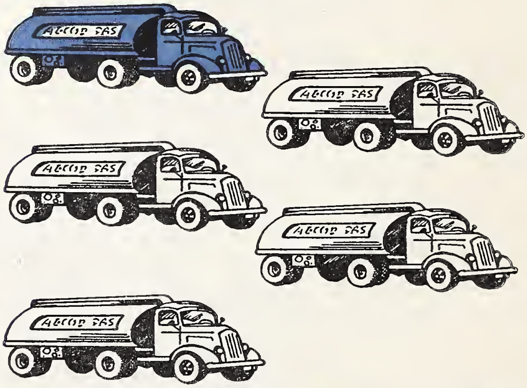

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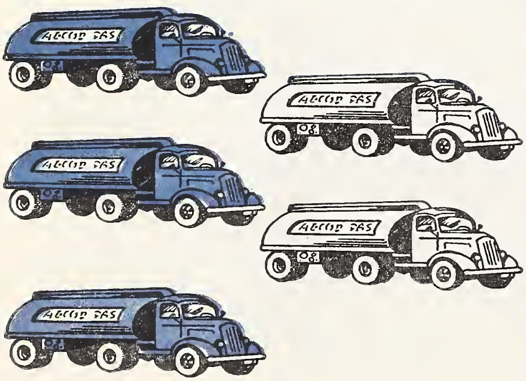

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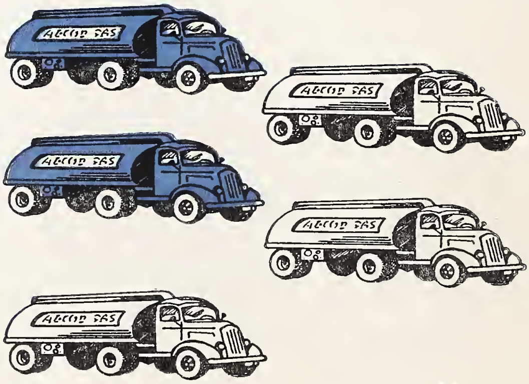

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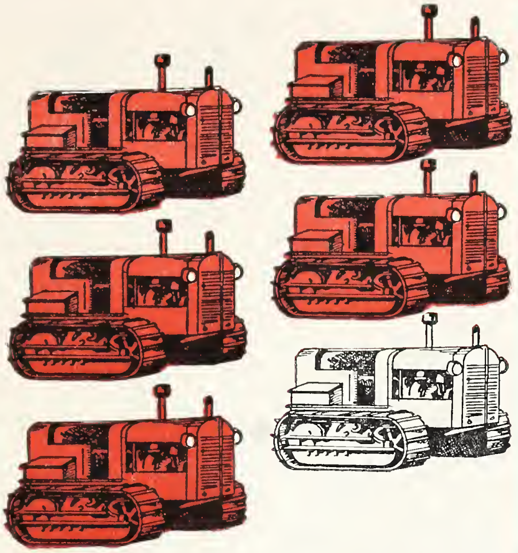

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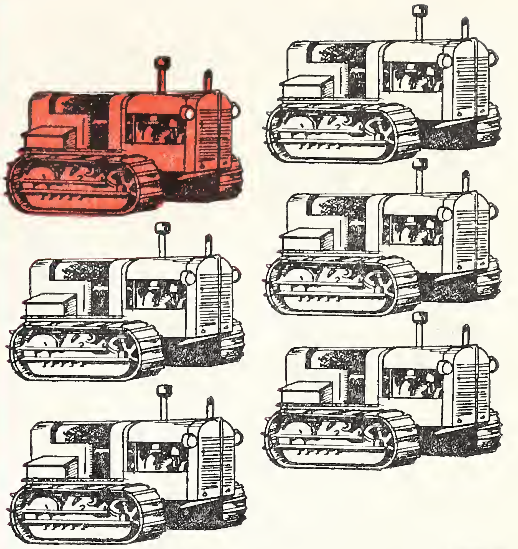

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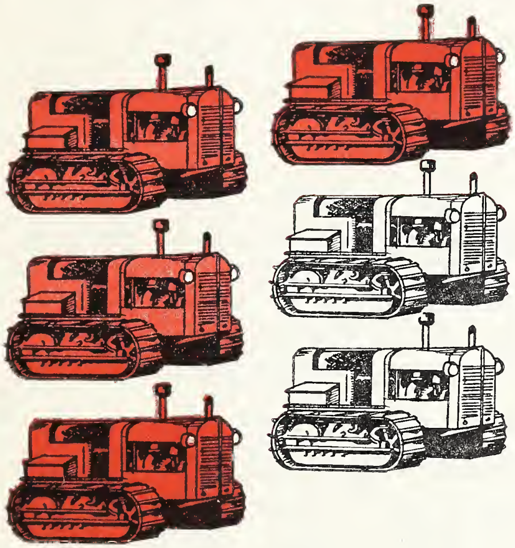

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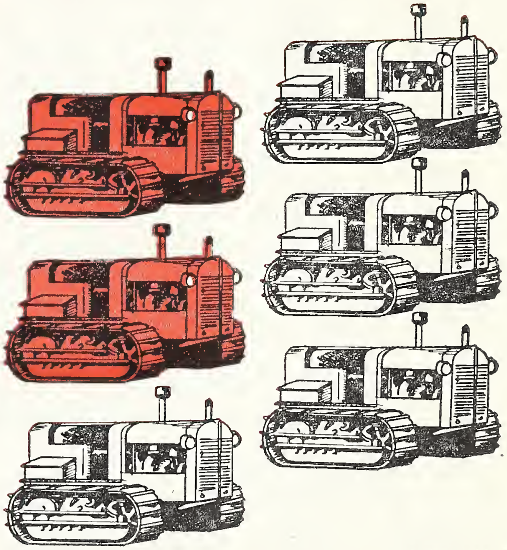

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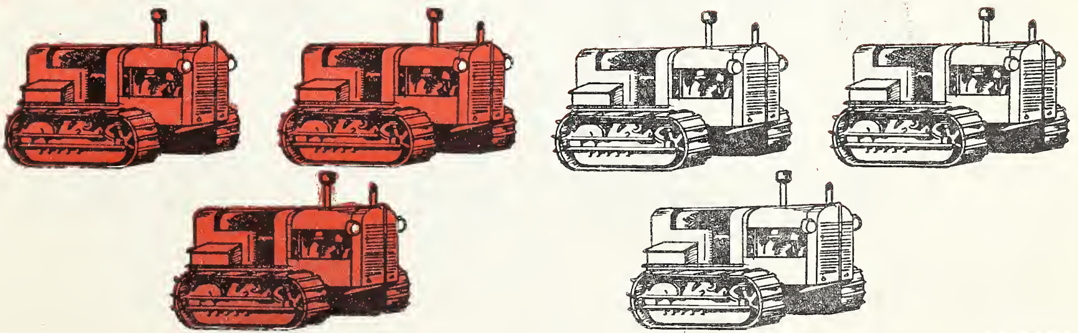

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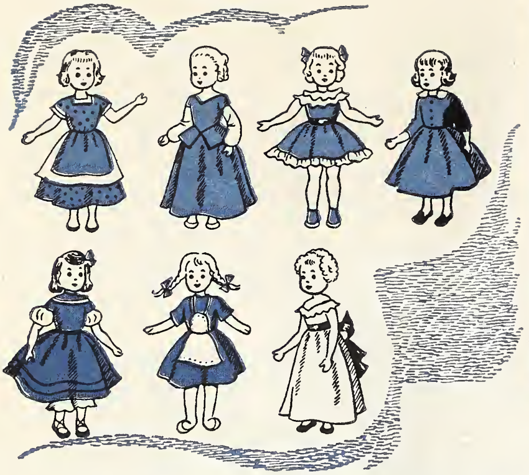

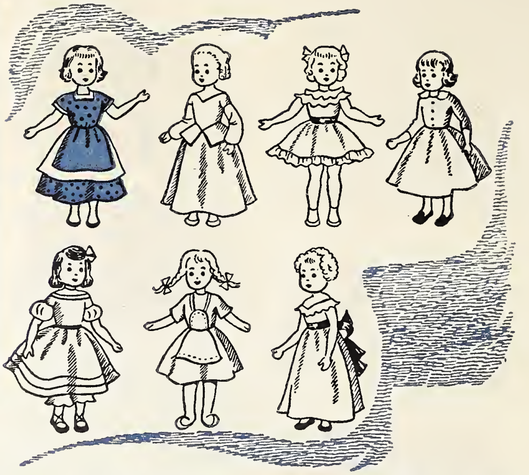

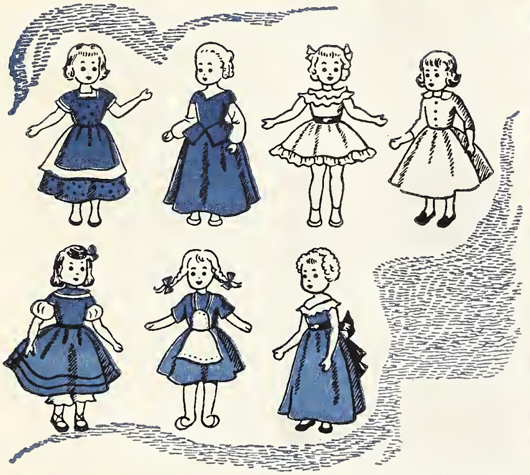

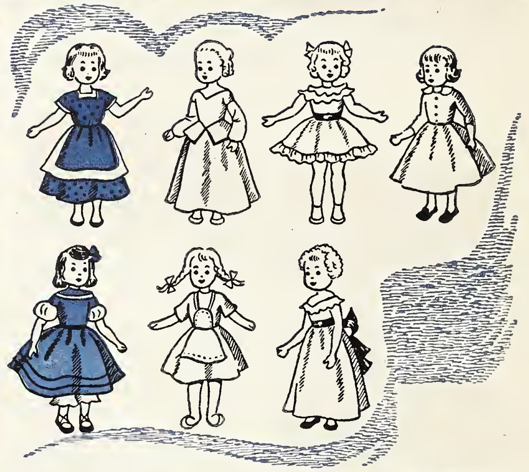

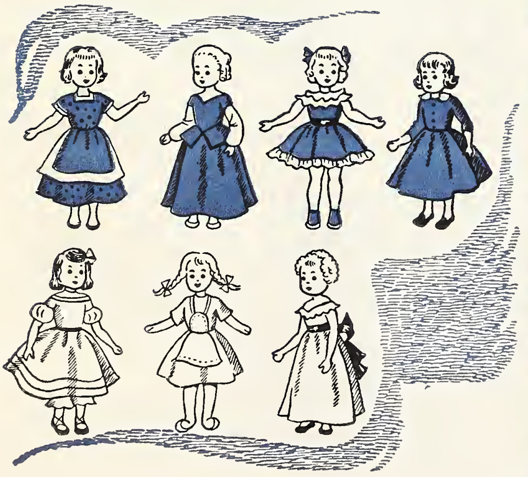

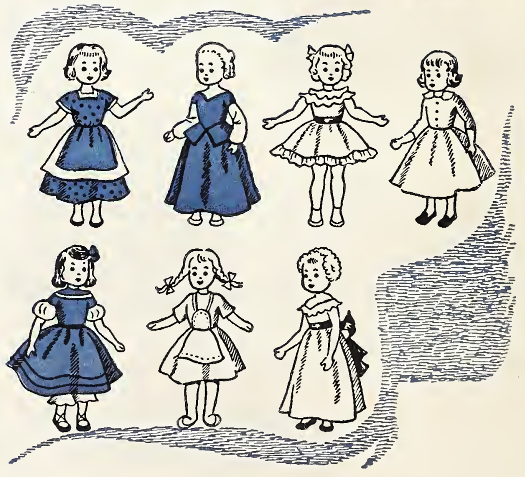

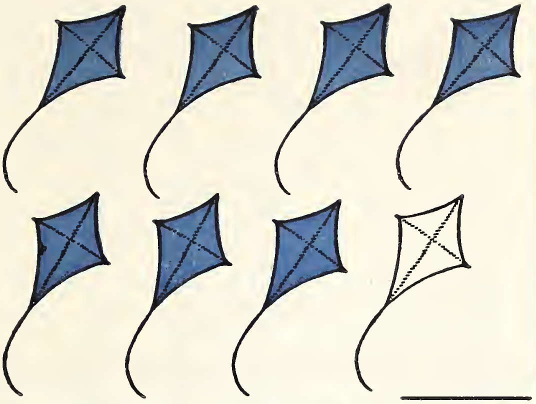

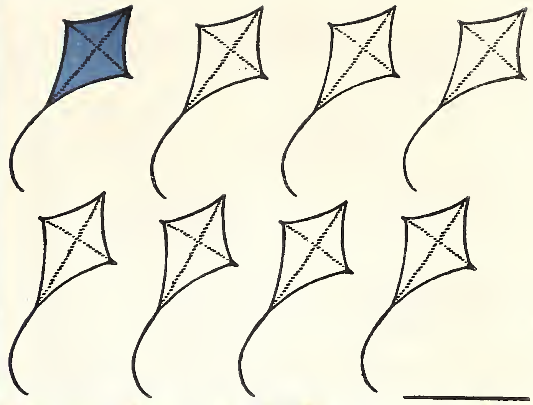

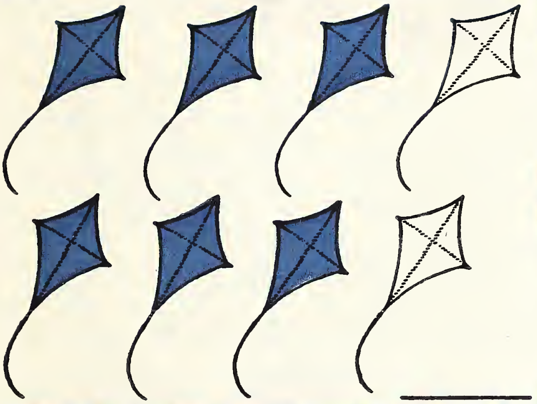

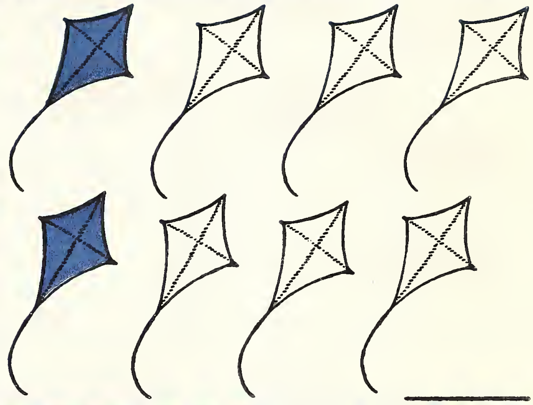

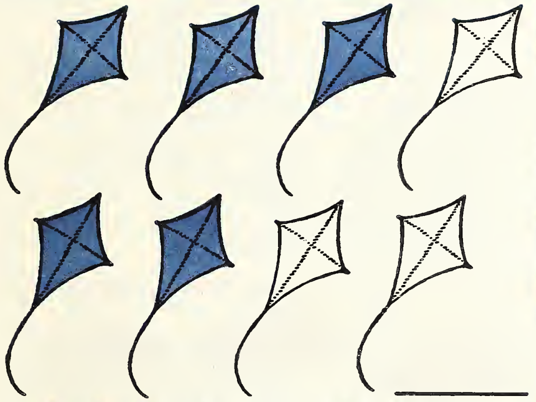

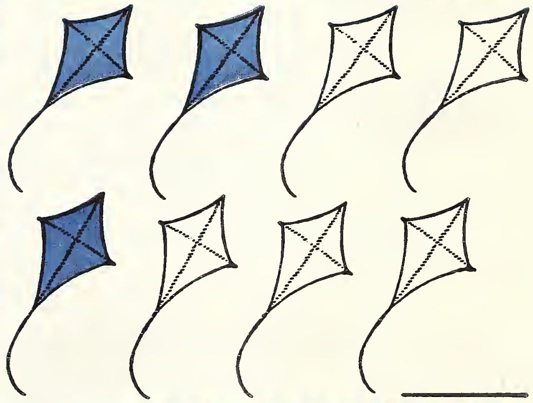

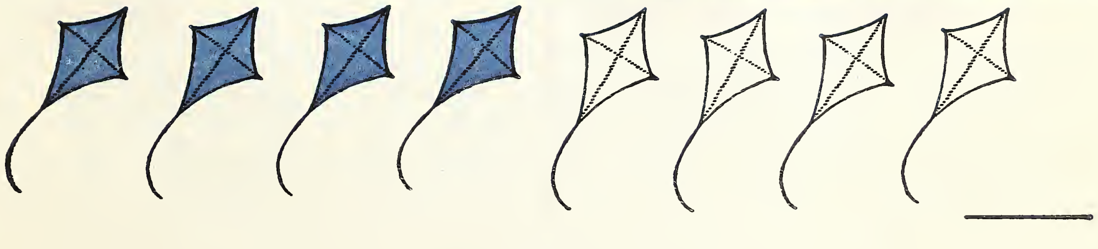

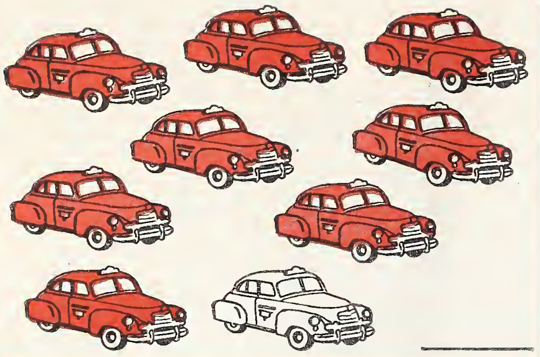

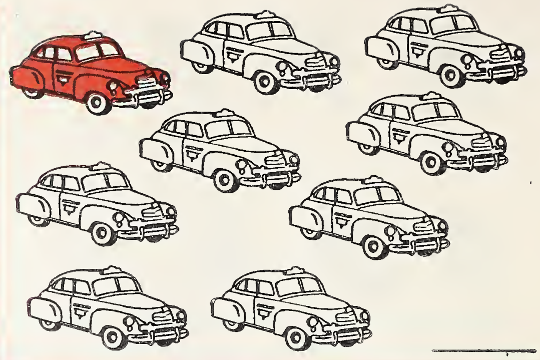

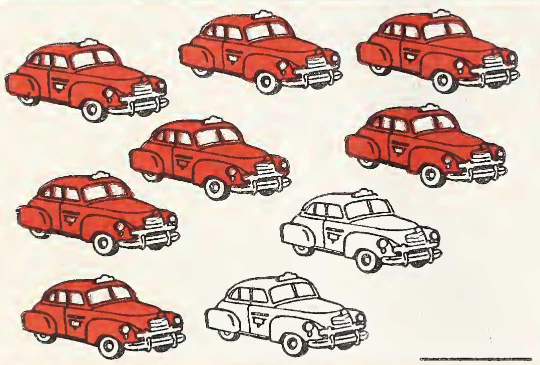

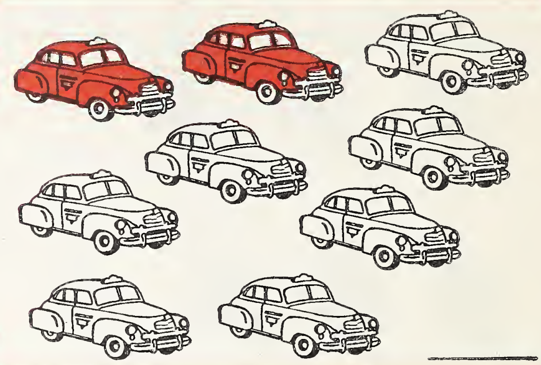

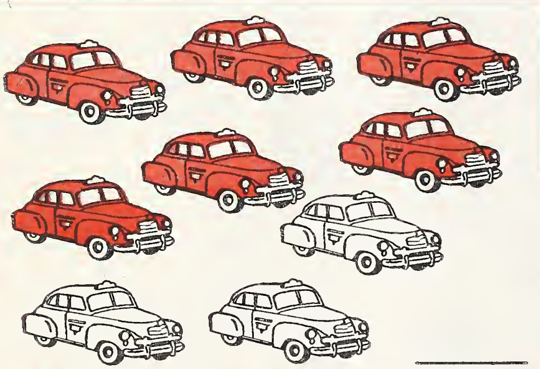

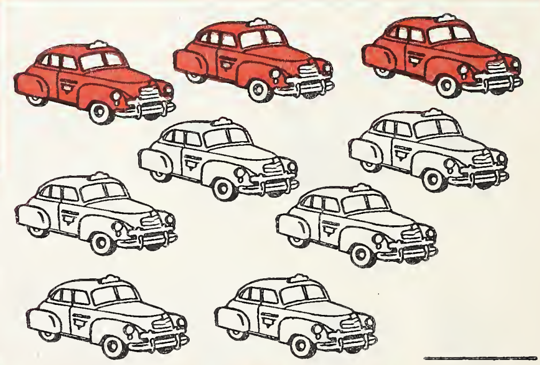

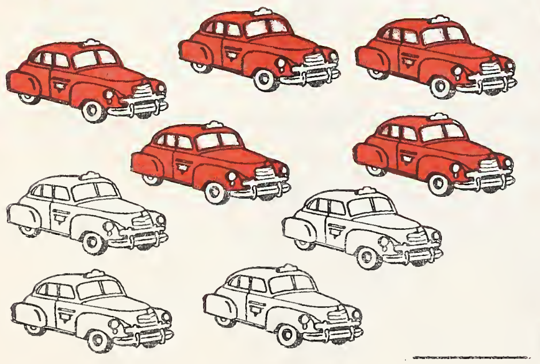

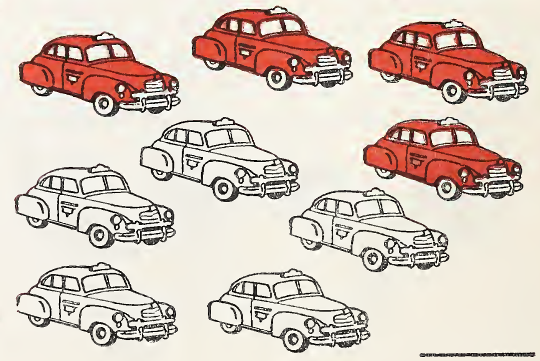

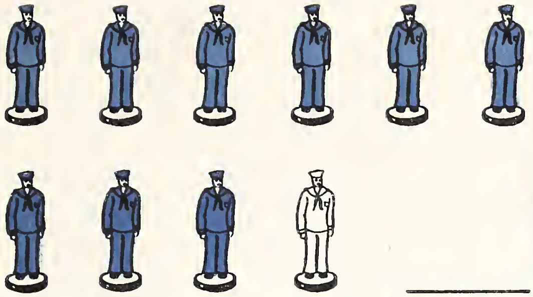

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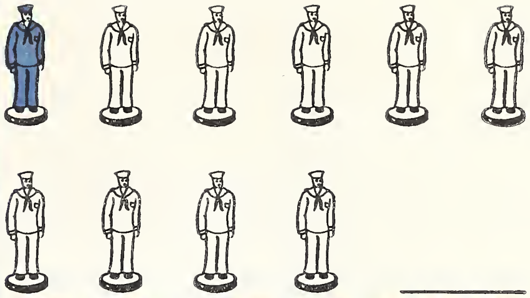

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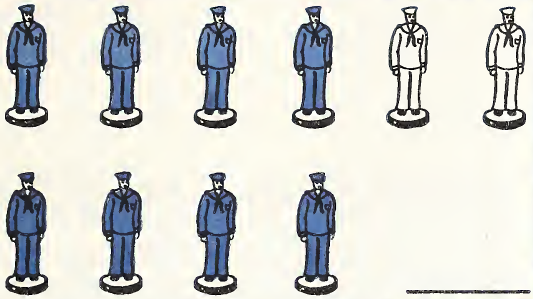

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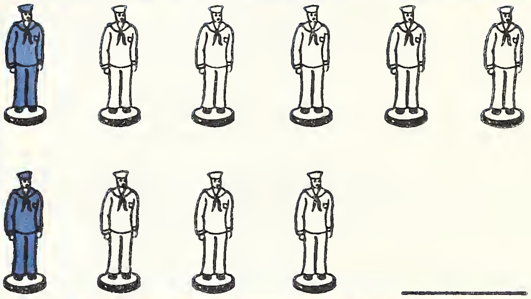

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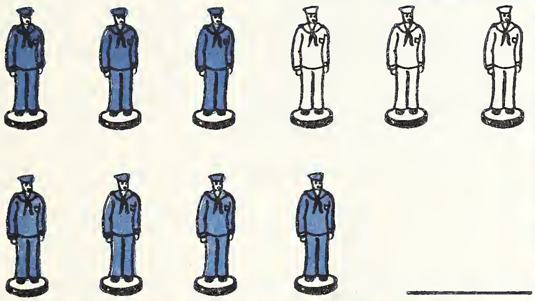

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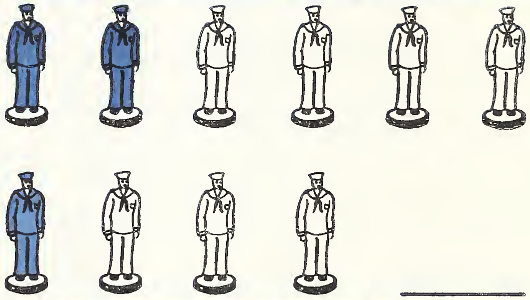

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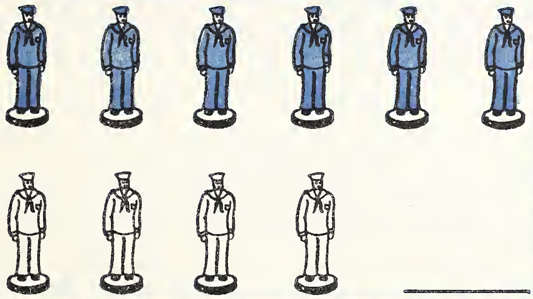

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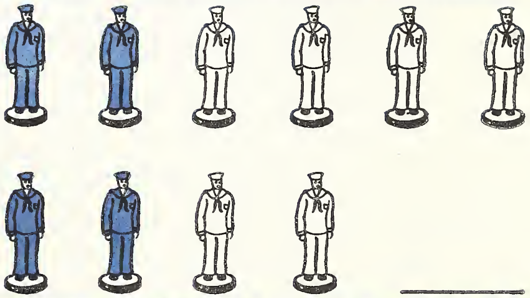

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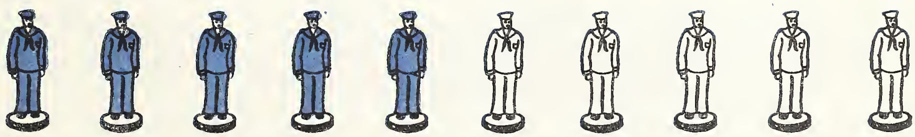

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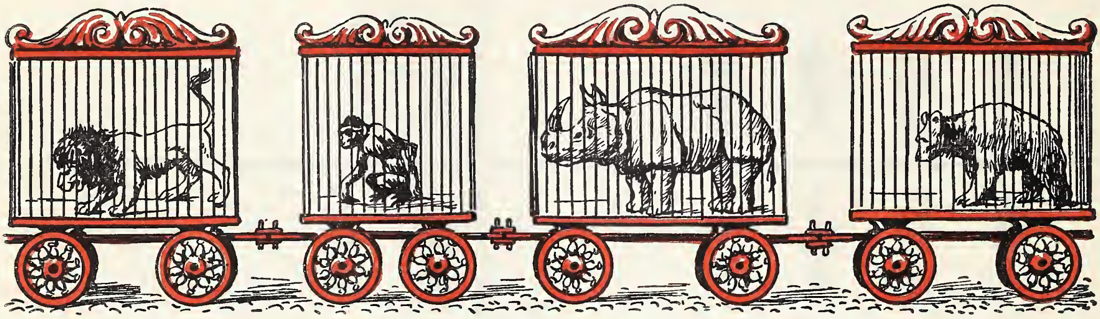

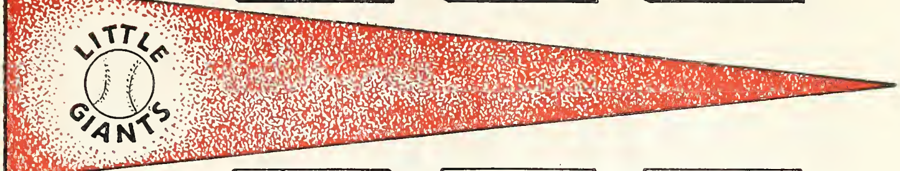
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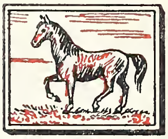
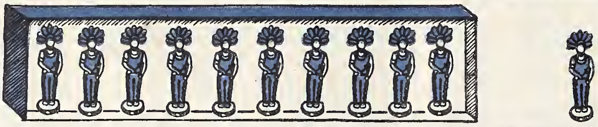
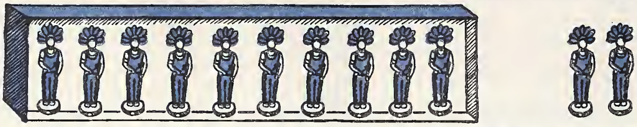
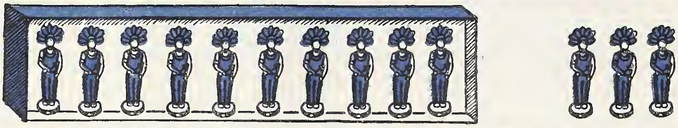
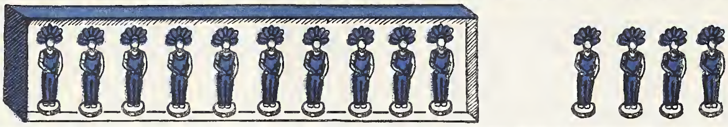
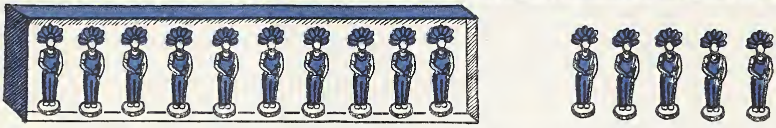


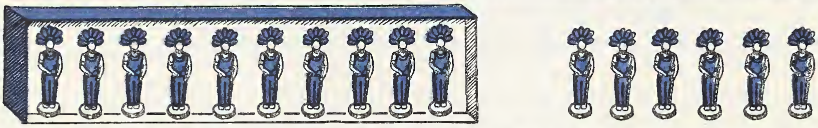
11 

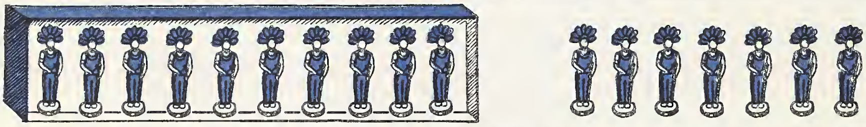
12 

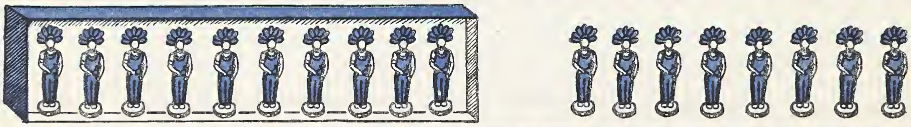
13 

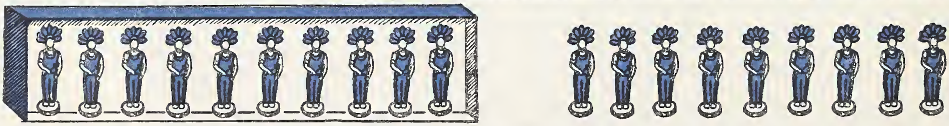
14 

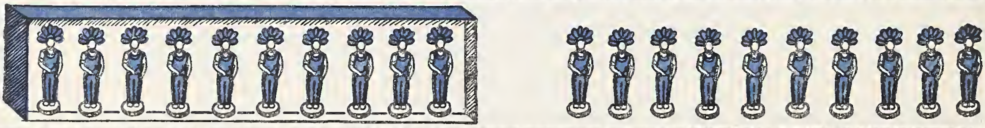
15 

16 

17 

18 

19 

20 

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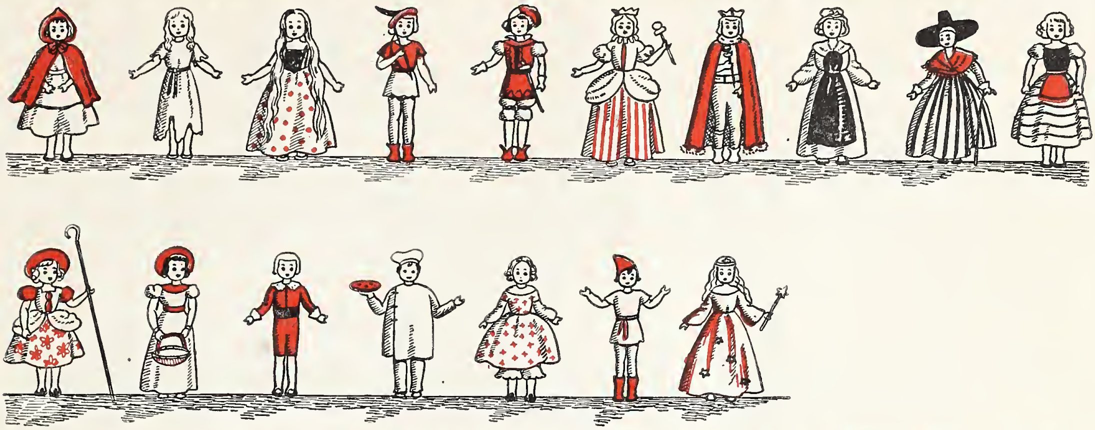

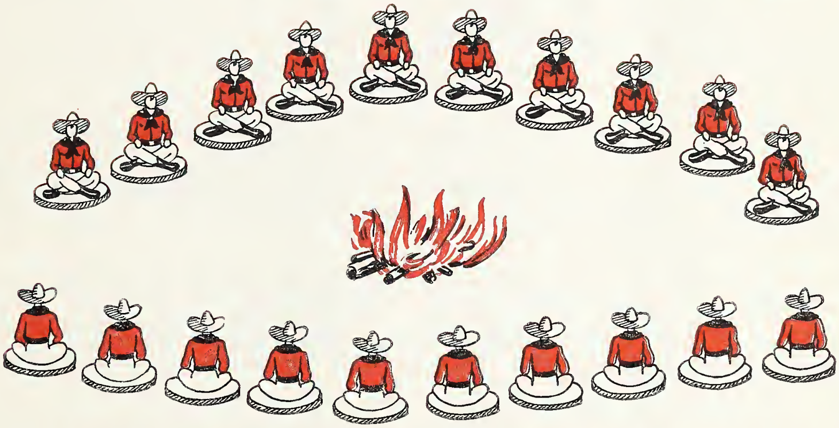

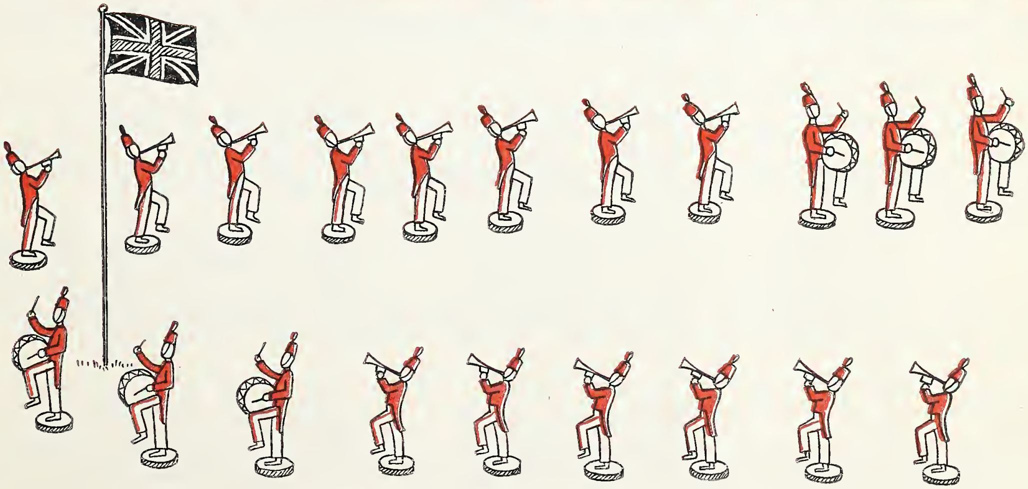

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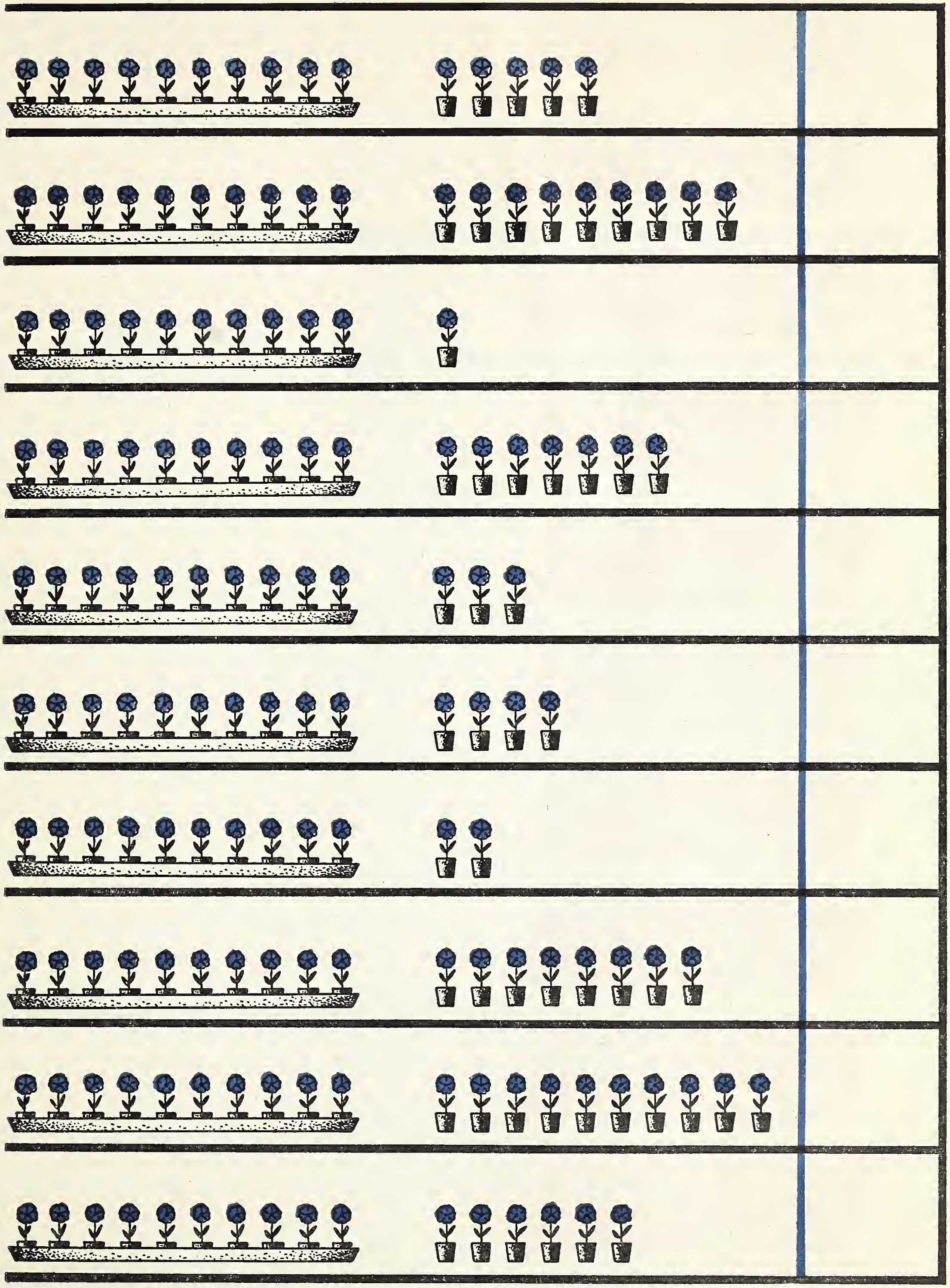
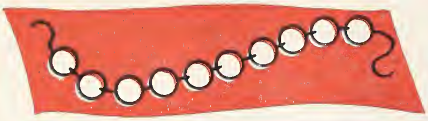
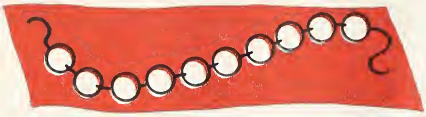
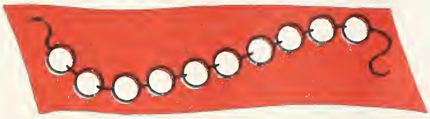
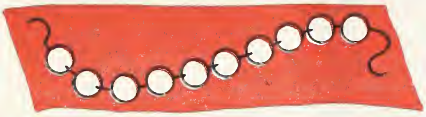
Tell how many.

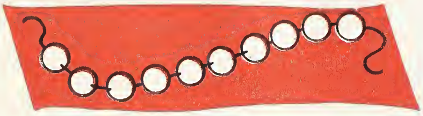


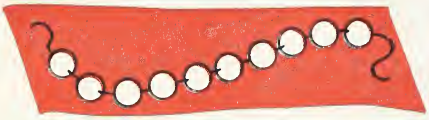
11  ⊙

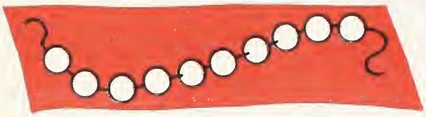
14  ⊙⊙⊙⊙

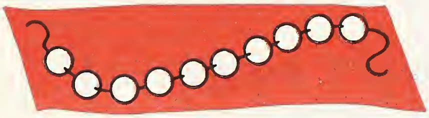
19 

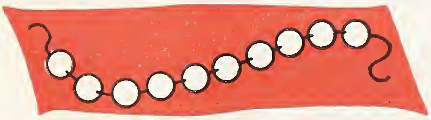
16 

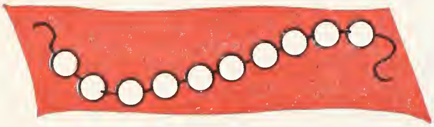
15 

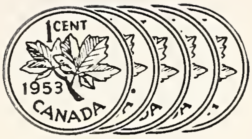
13 

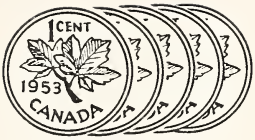
20 

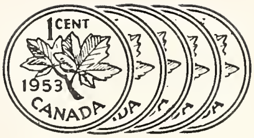
18 

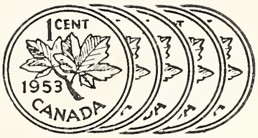
12 

17 









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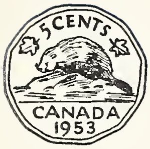

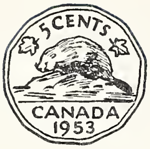

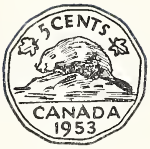

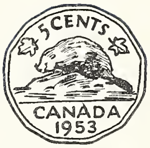

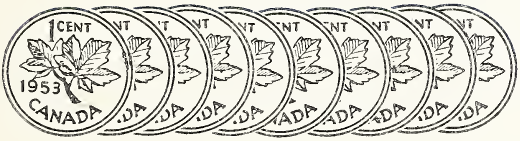

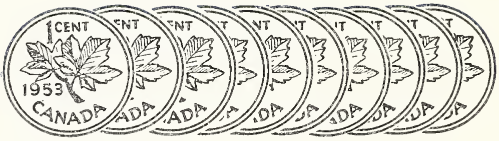

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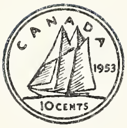

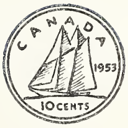

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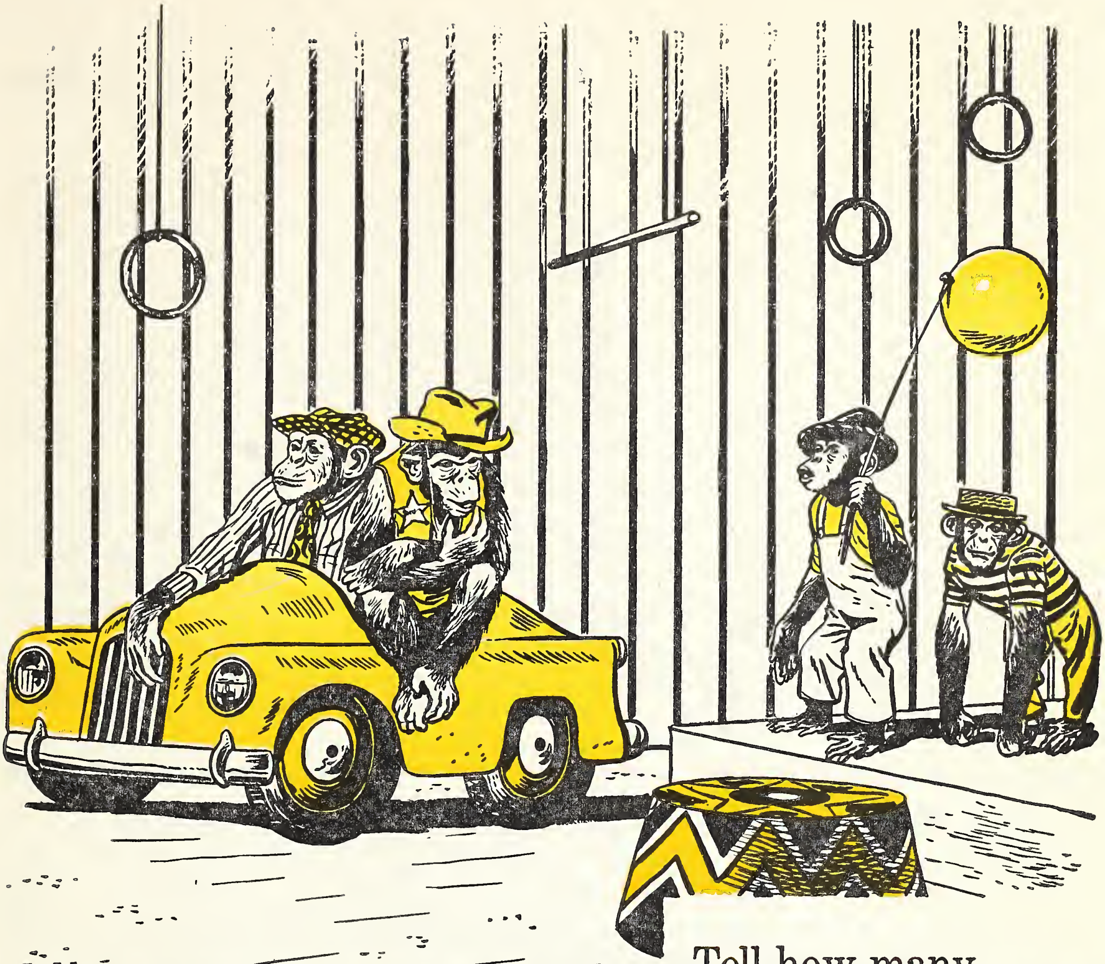
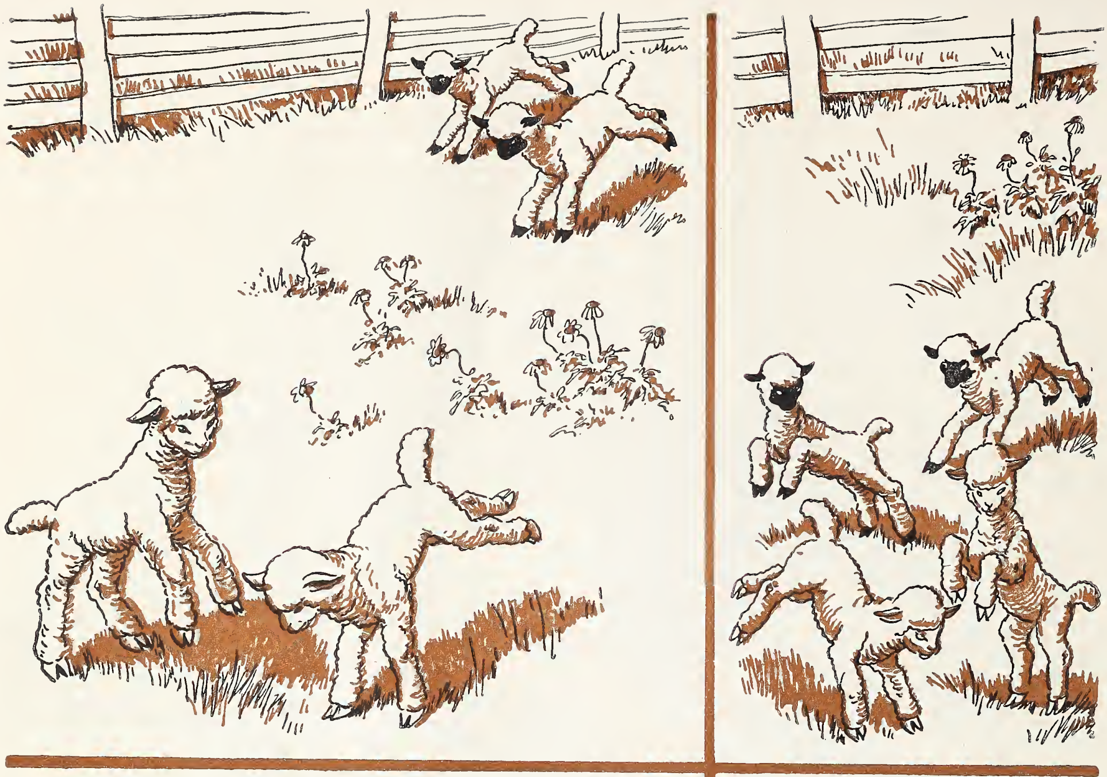


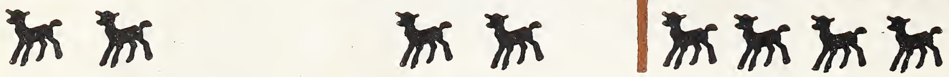
Tell how many. ____

Draw 2 balls.

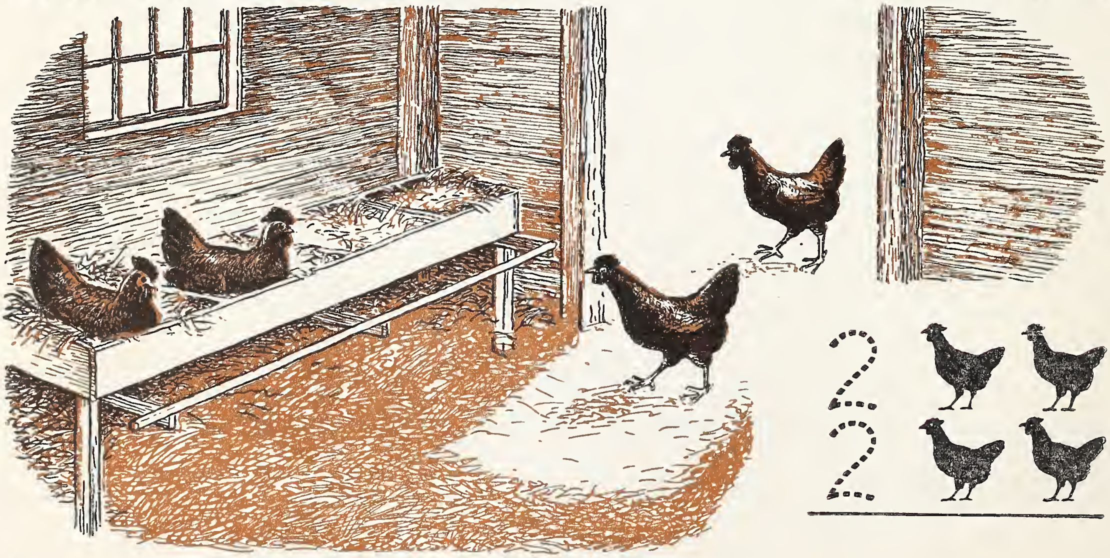
Draw 2 balls.

____

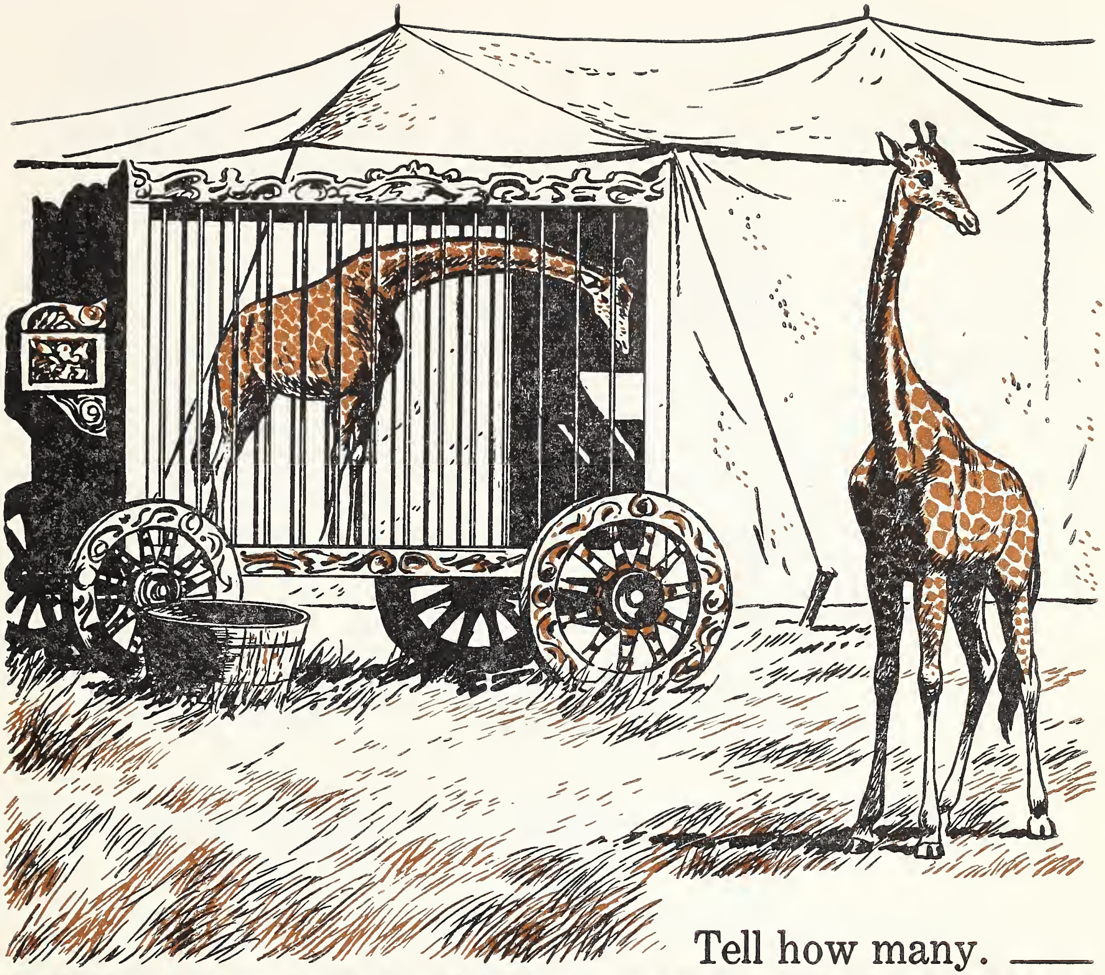




2 and 2 are ____

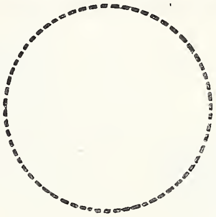


How many are 2 hens and 2 hens? ____ hens

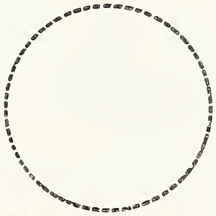


Tell how many. ____

Draw 1 ball.



Draw 1 ball.



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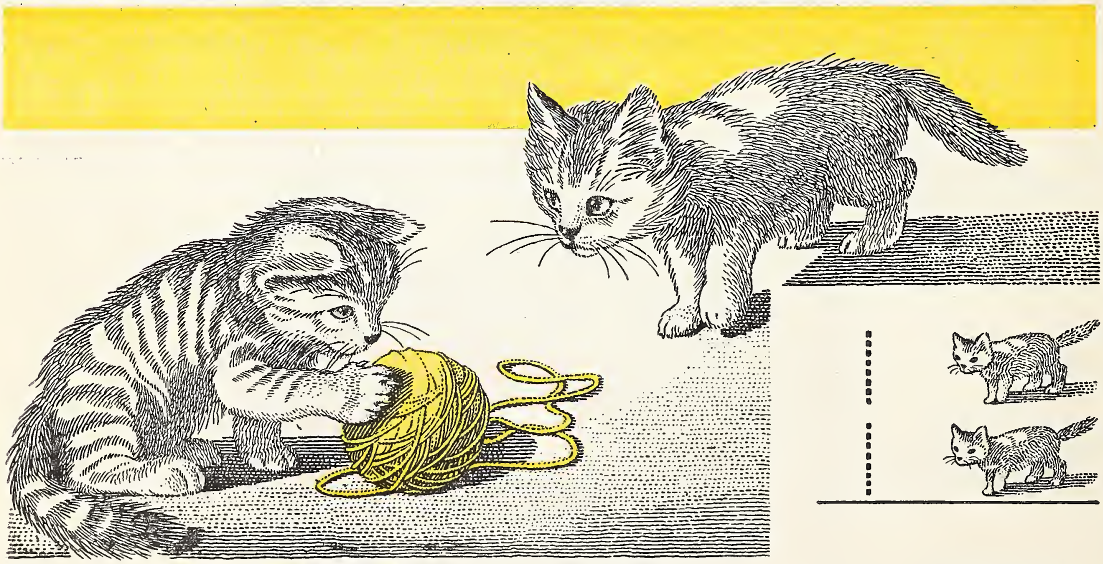
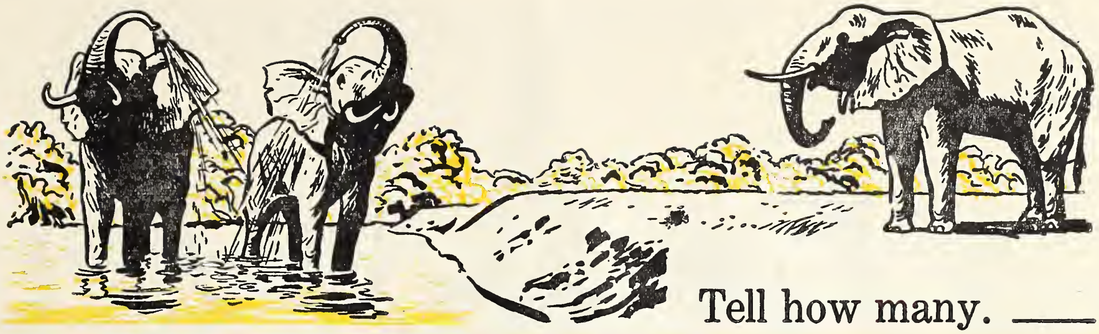
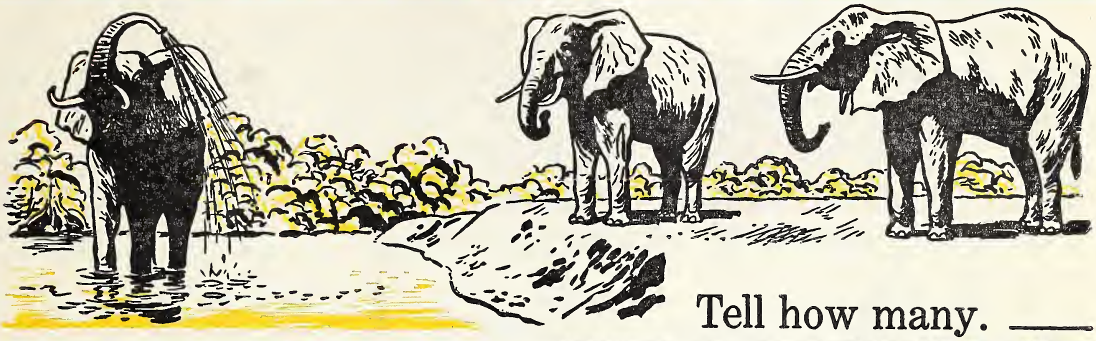
1 and 1 are ____



How many are 1 kitten and 1 kitten? ____ kittens

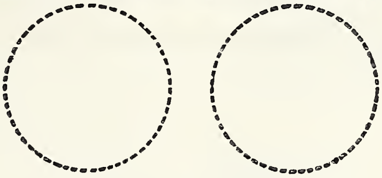


Tell how many. ____

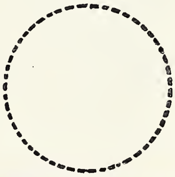


Tell how many. ____

Draw 2 balls.



Draw 1 ball.



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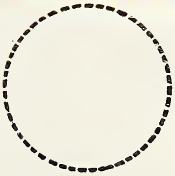
Draw 1 ball.



Draw 2 balls.

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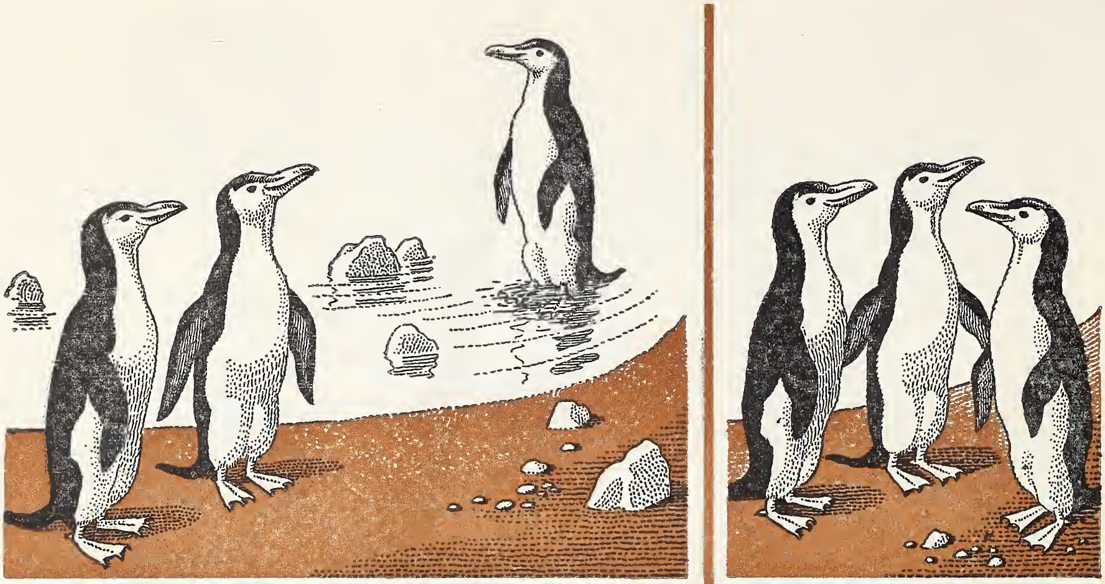
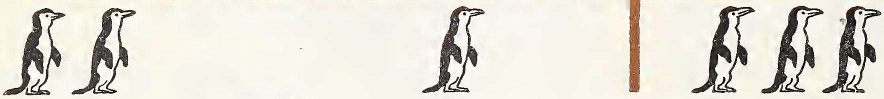
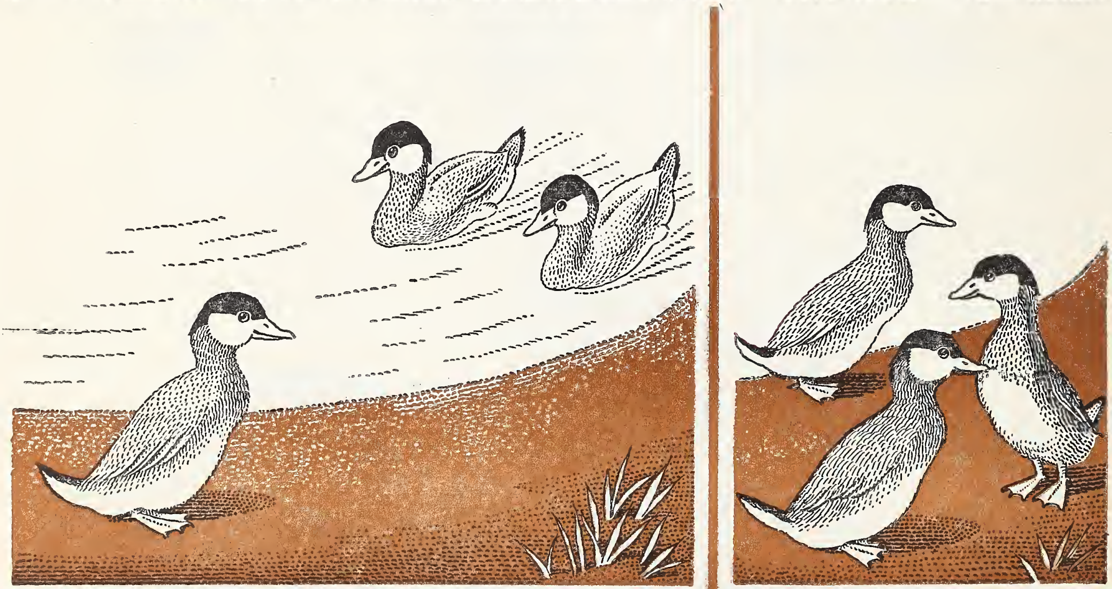
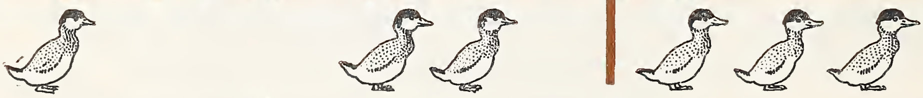


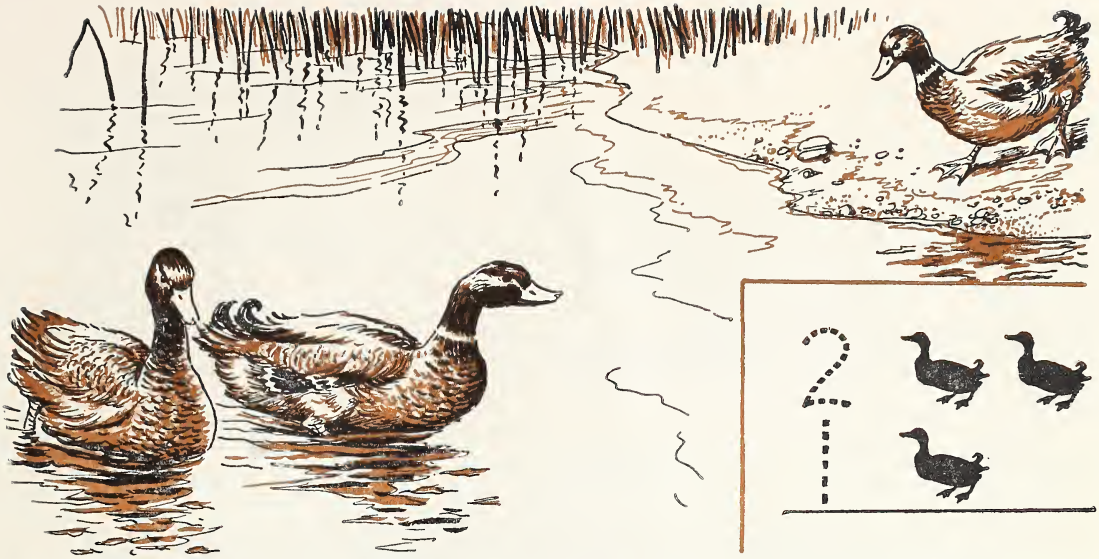


2 and 1 are ____

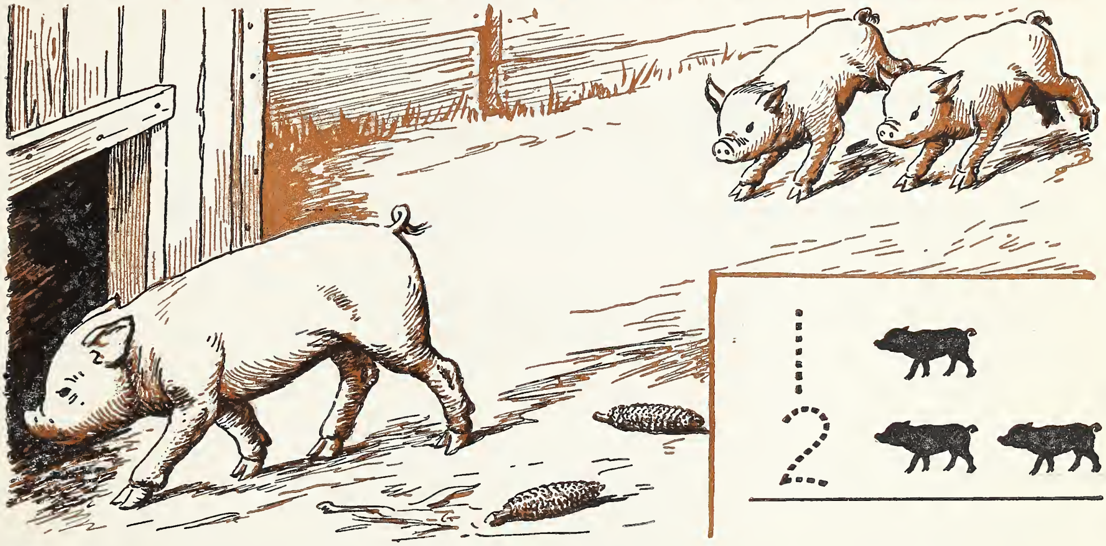




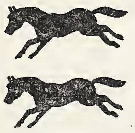
1 and 2 are ____



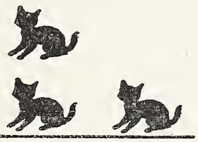
How many are 2 ducks and 1 duck? ____ ducks



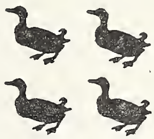
How many are 1 pig and 2 pigs? ____ pigs

1

1

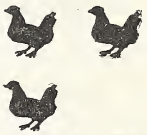
____ ponies

1

2

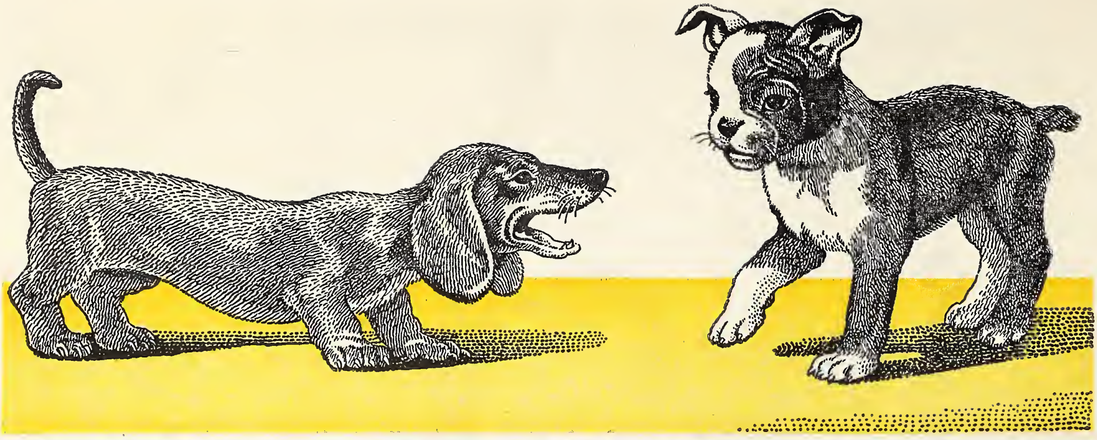
____ kittens

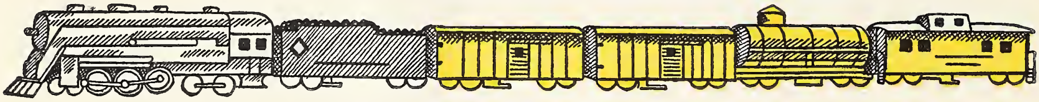
2

2

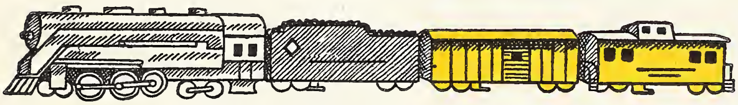
____ ducks

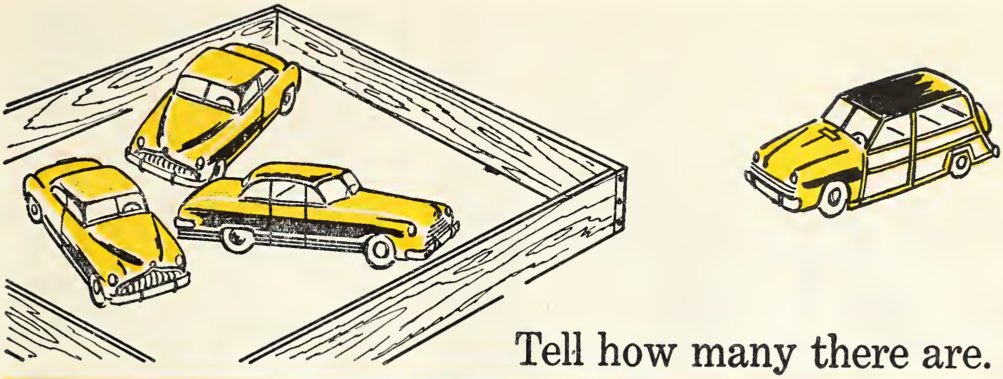
2

1

____ hens

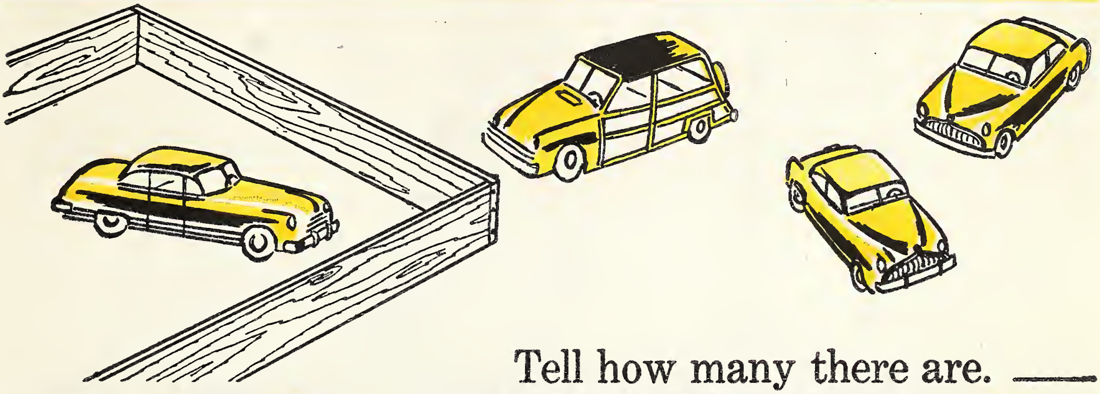






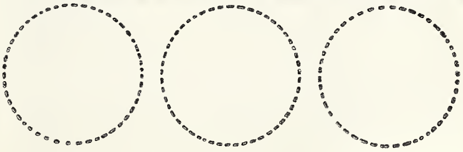


Tell how many there are. ____

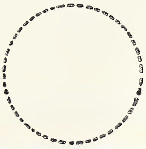


Tell how many there are. ____

Draw 3 balls.



Draw 1 ball.

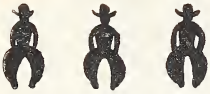


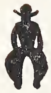
____

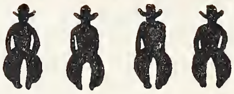
Draw 1 ball.

Draw 3 balls.

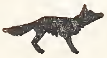
____

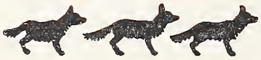


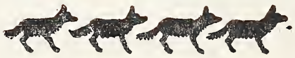




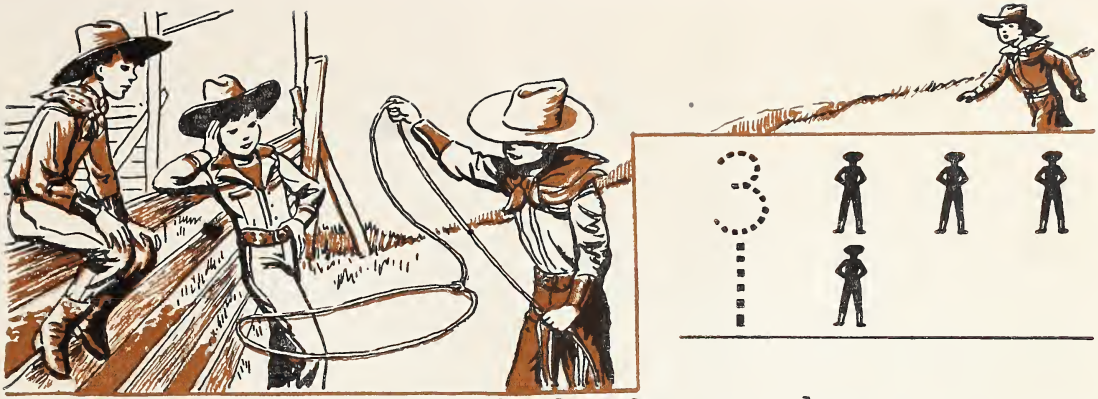
3 and 1 are ____



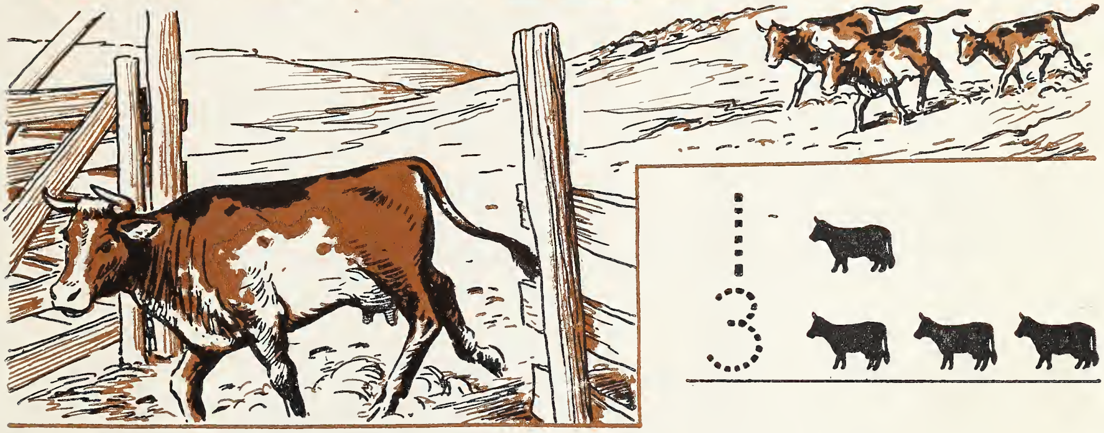




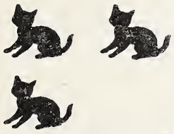
1 and 3 are ____



How many are 3 boys and 1 boy? ____ boys



How many are 1 cow and 3 cows? ____ cows

2 
1

____kittens

2 kittens
1 kitten

____kittens

1
3

____pigs

1 pig
3 pigs

____pigs

3
1

____hens

3 hens
1 hen

____hens

1
2

____dogs

1 dog
2 dogs

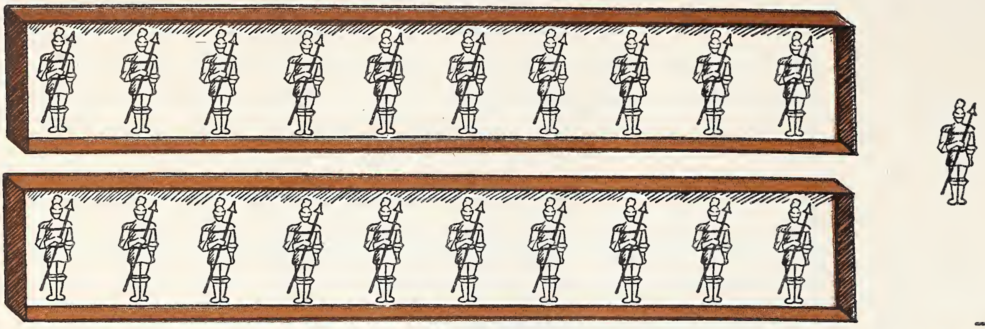
____dogs

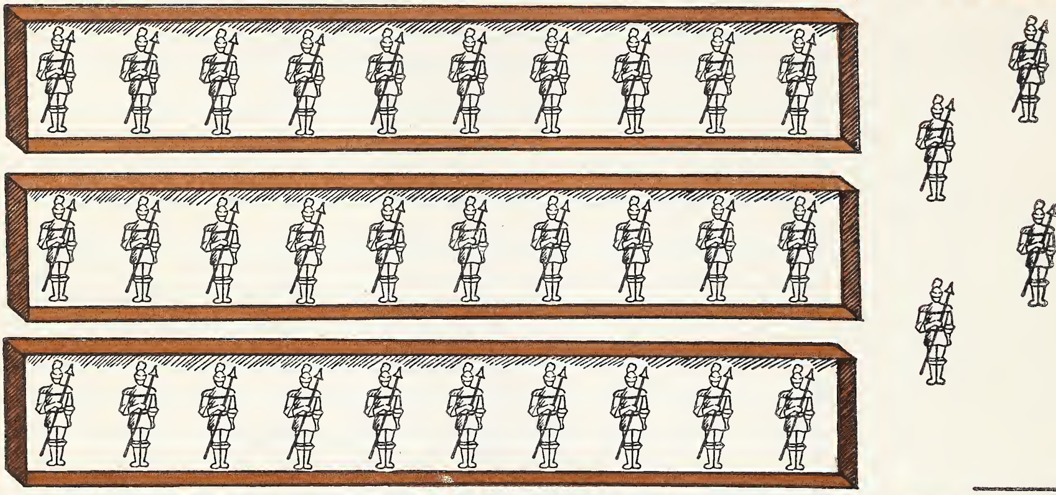
1	11	21	31	41
2	12	22	32	42
3	13	23	33	43
4	14	24	34	44
5	15	25	35	45
6	16	26	36	46
7	17	27	37	47
8	18	28	38	48
9	19	29	39	49
10	20	30	40	50

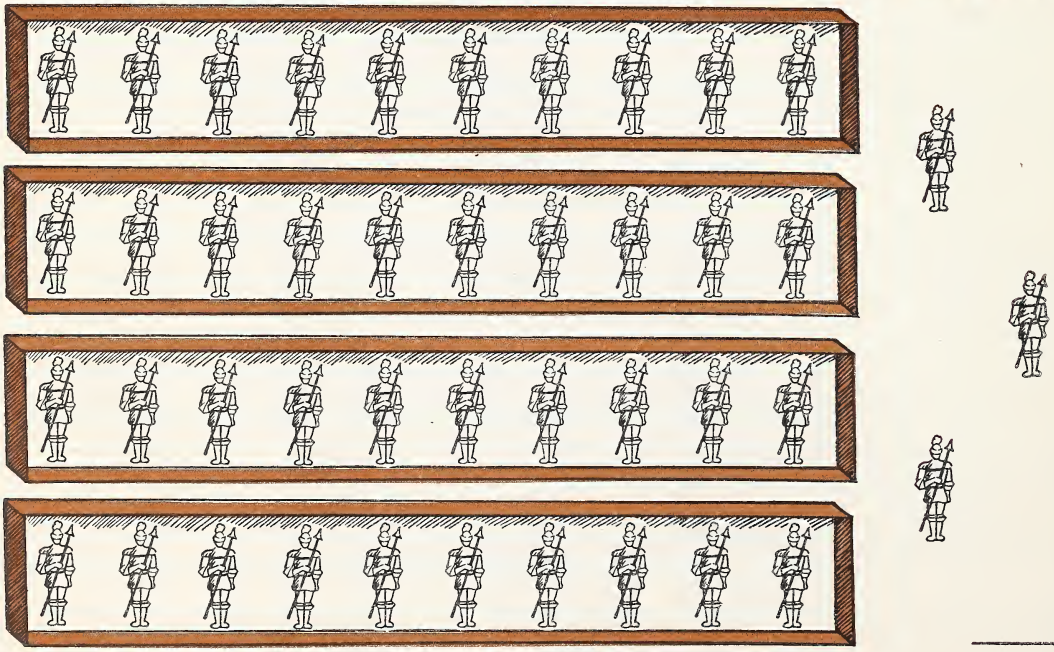
1	11	21	31	41
10	20	30		

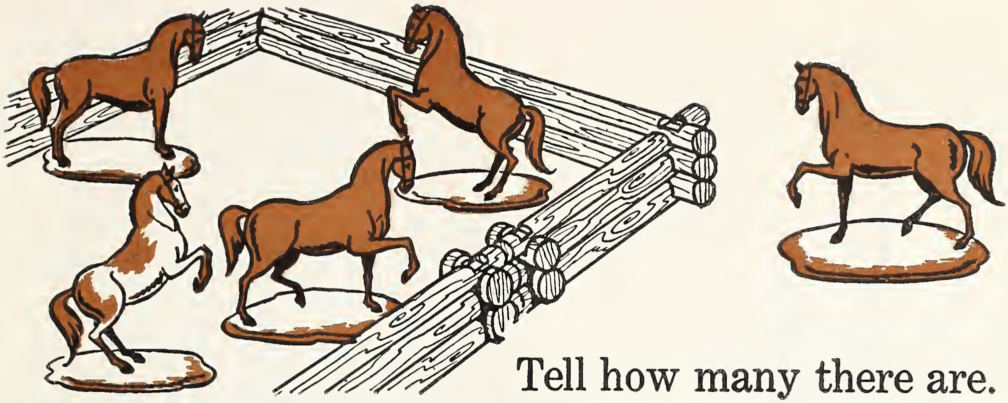
21	31
23	33
25	35
27	37
29	39

_____ _____ _____ _____ _____

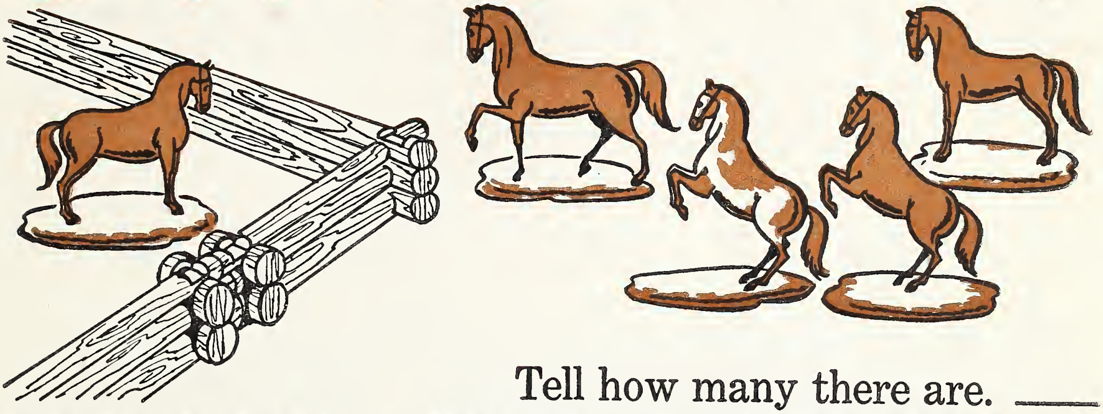








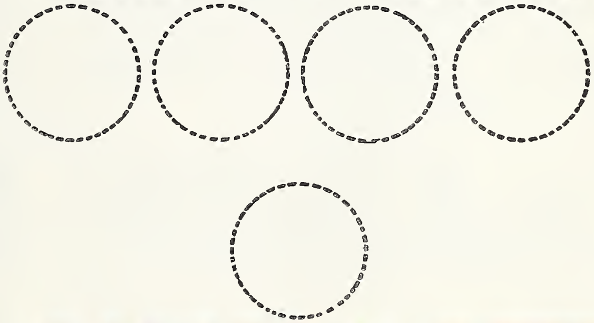
Tell how many there are. ____



Tell how many there are. ____

Draw 4 balls.

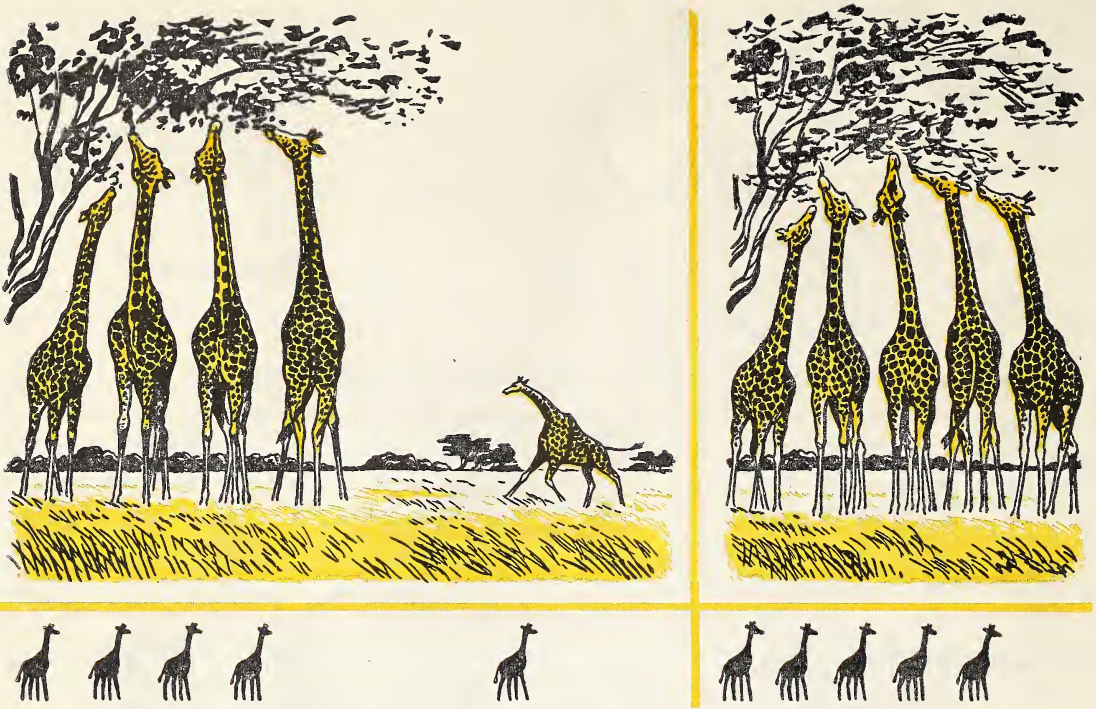
Draw 1 ball.



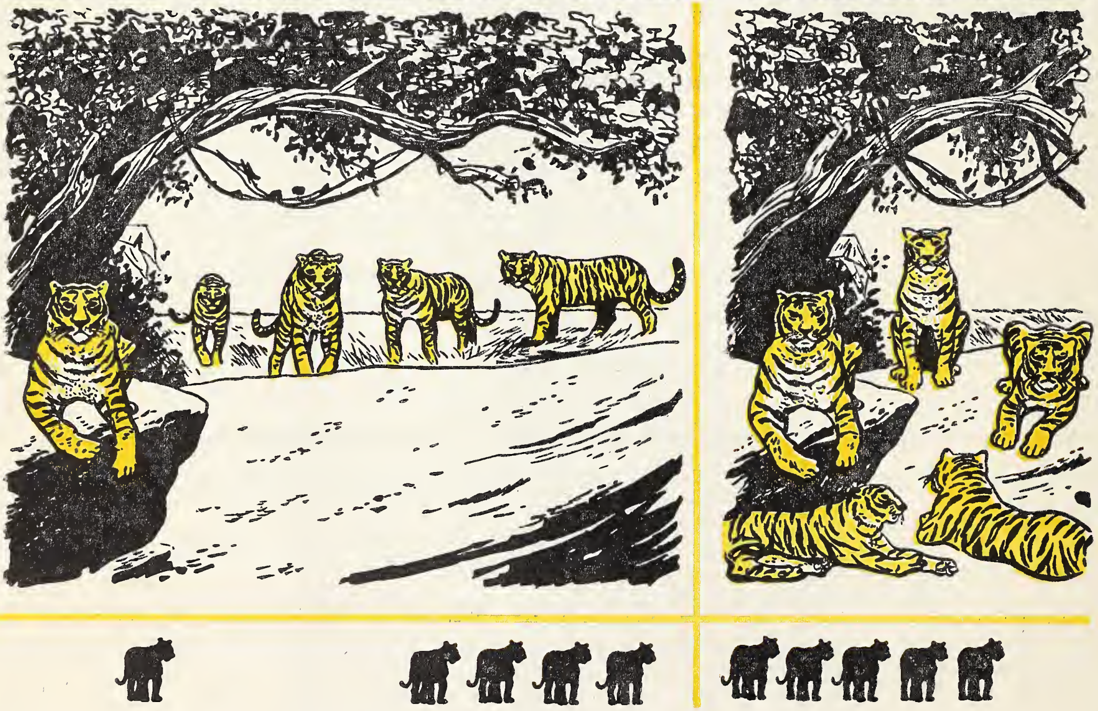
____

Draw 1 ball.

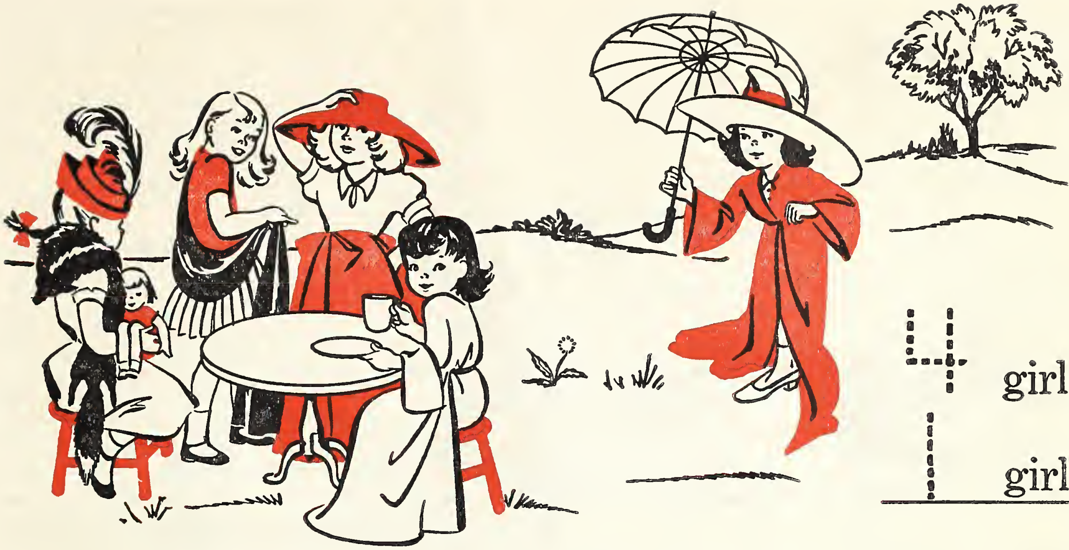
Draw 4 balls.



4 and 1 are ____



1 and 4 are ____



4 girls
1 girl

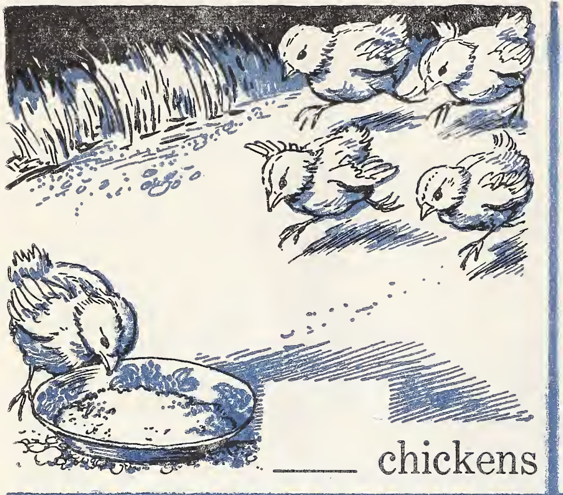
How many are 4 girls and 1 girl? ____ girls

1 boy
4 boys

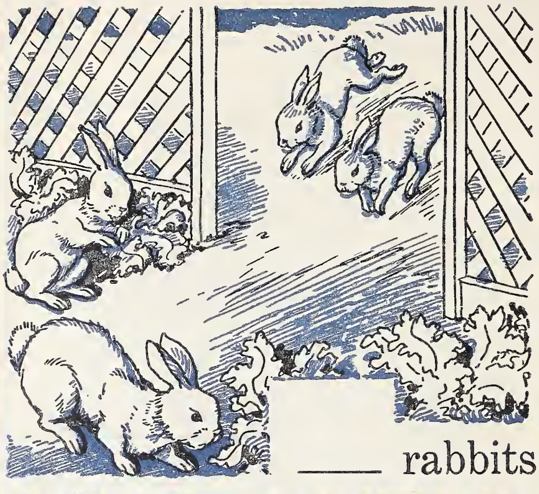
How many are 1 boy and 4 boys? ____ boys

Tell how many there are in all.

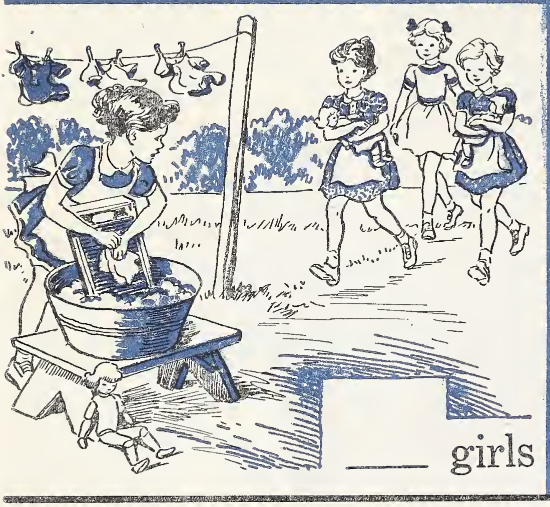
2 ponies	4 kittens	1 cow	1 duck
2 ponies	1 kitten	1 cow	4 ducks
____ponies	____kittens	____cows	____ducks



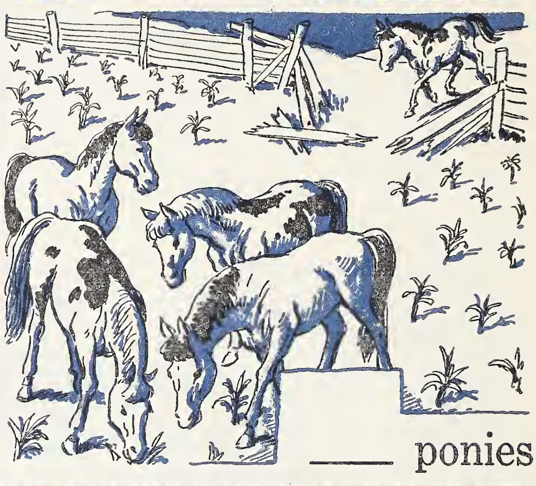
____ chickens



____ rabbits



____ girls



____ ponies

Tell how many there are in all.

2 rabbits
1 rabbit
____rabbits

1 kitten
3 kittens
____kittens

1 dog
1 dog
____dogs

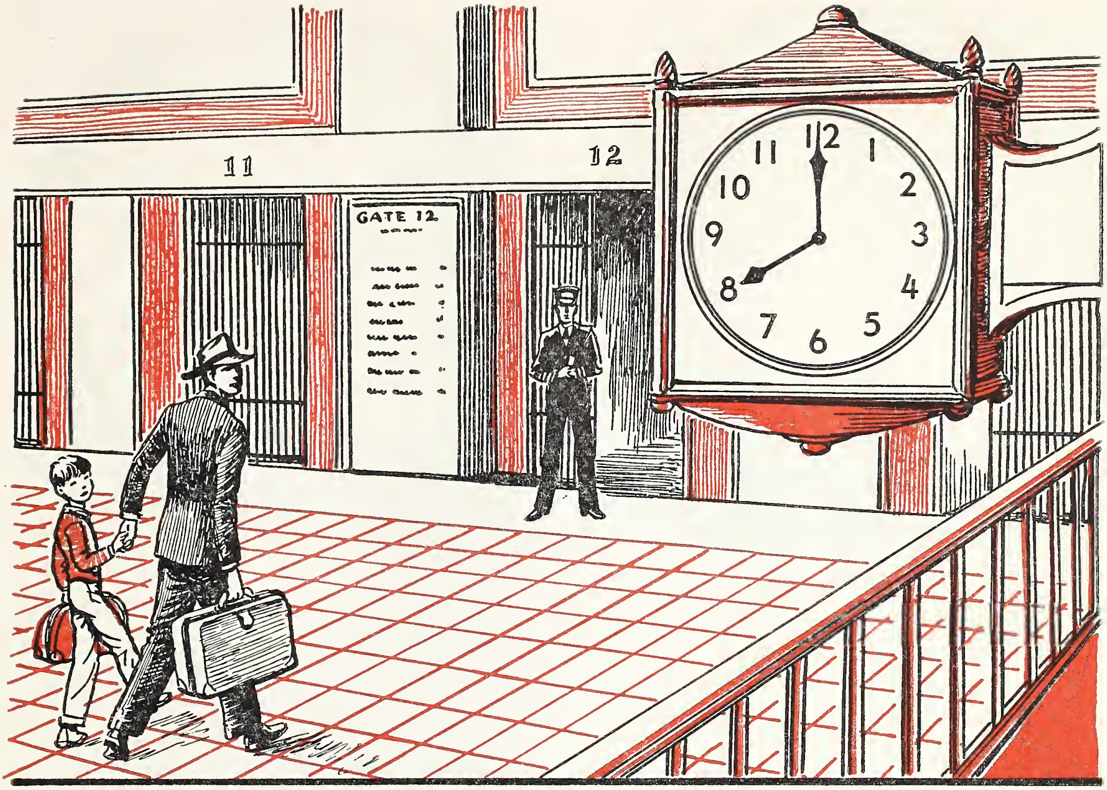
4 cows
1 cow
____cows

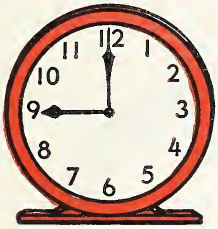
3 ducks
1 duck
____ducks

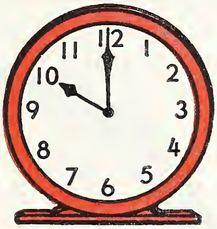
2 chickens
2 chickens
____chickens

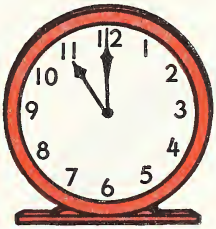
1 pig
4 pigs
____pigs

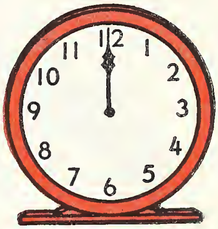
1 pony
2 ponies
____ponies


11
12
GATE 12

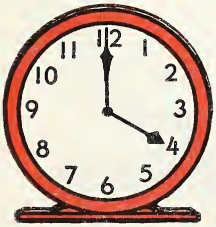


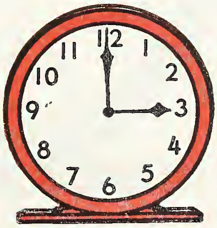


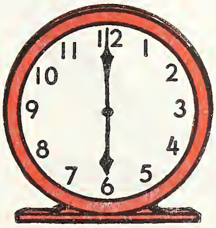


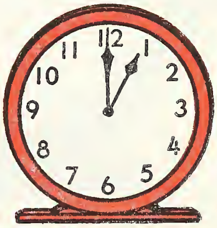


______ ______ ______ ______

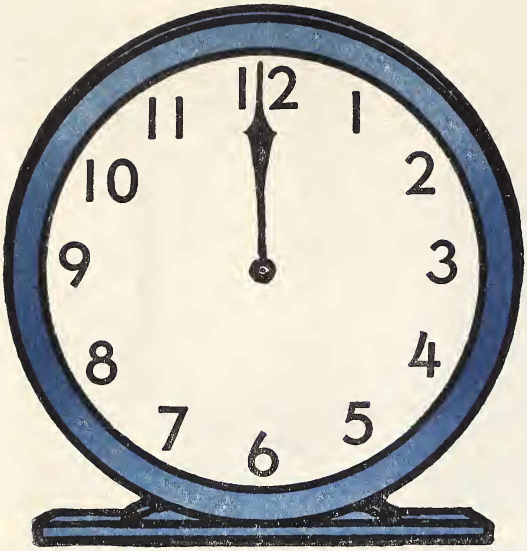




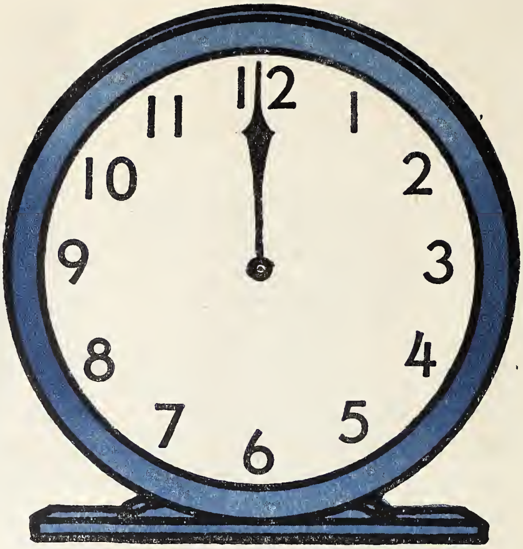




______ ______ ______ ______


12
1
2
3
4
5
6
7
8
9
10
11

7


12
1
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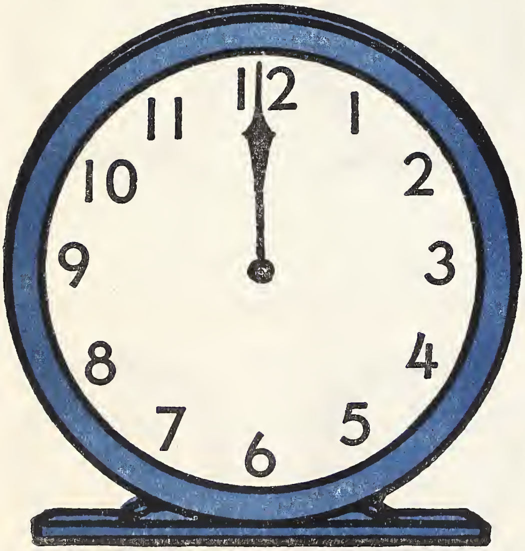
9
10
11

2


12
1
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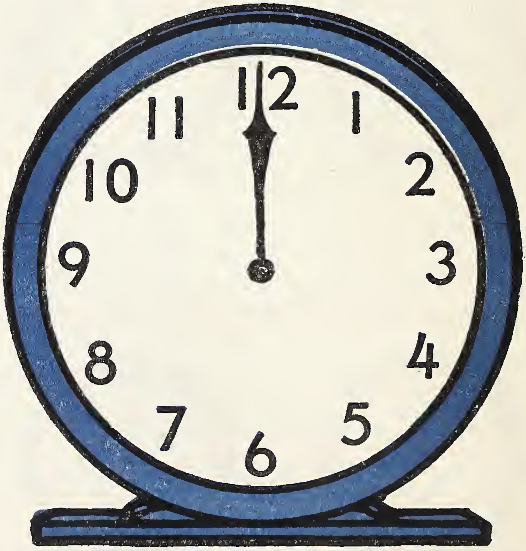
11

5


12
1
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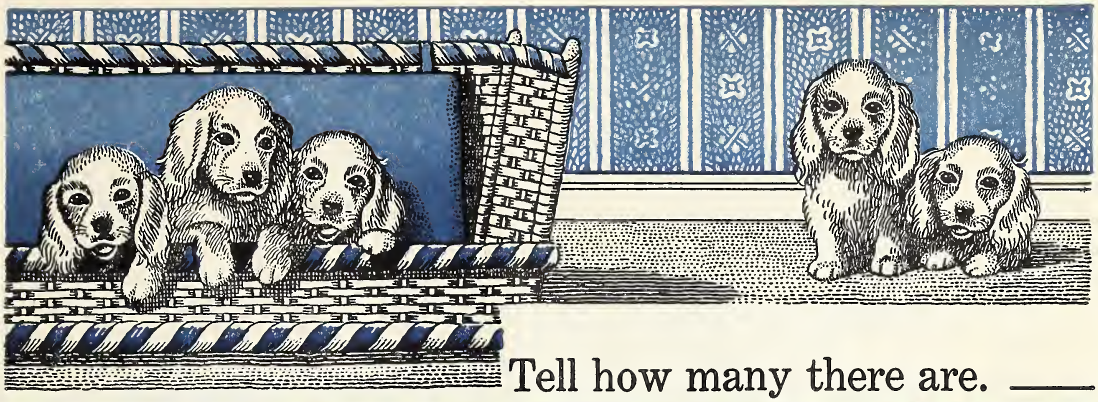
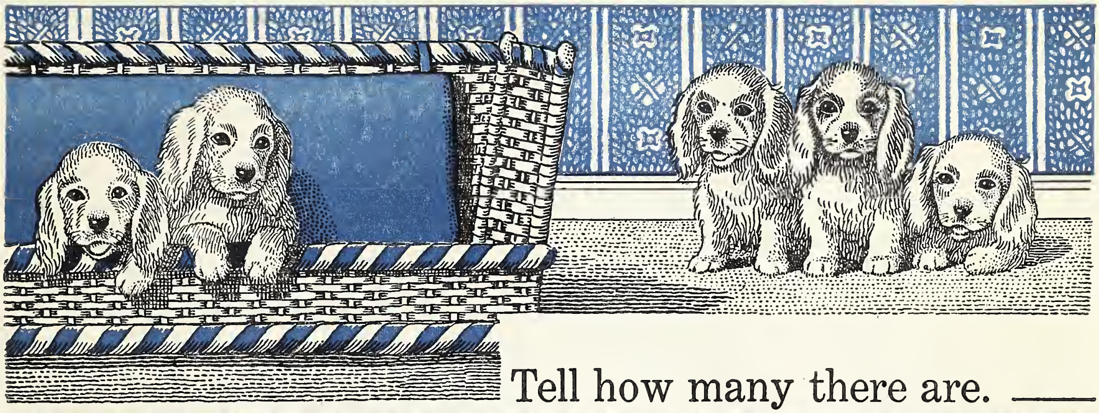
10
11

8

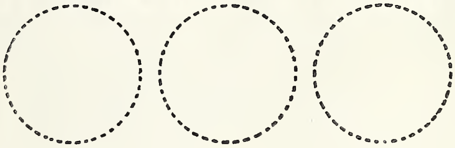


Tell how many there are. ____



Tell how many there are. ____

Draw 3 balls.



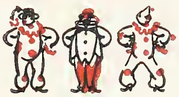
Draw 2 balls.

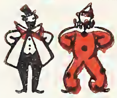
____

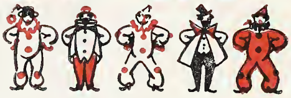
Draw 2 balls.

Draw 3 balls.

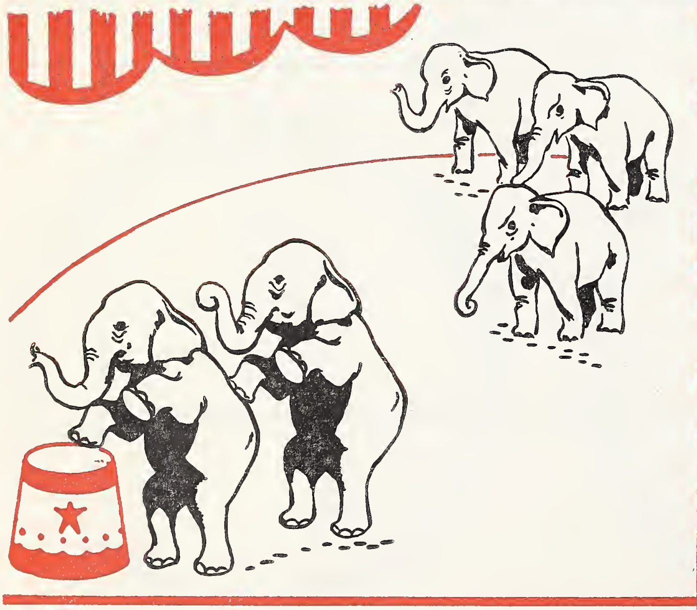
____

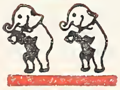


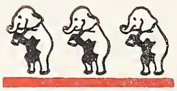


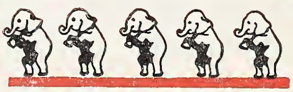


3 and 2 are ____

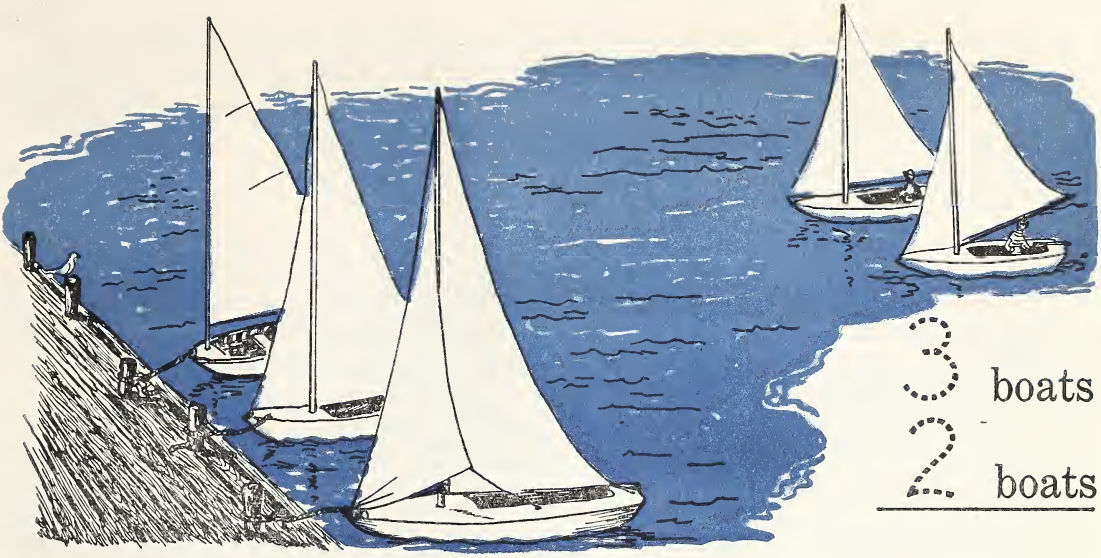








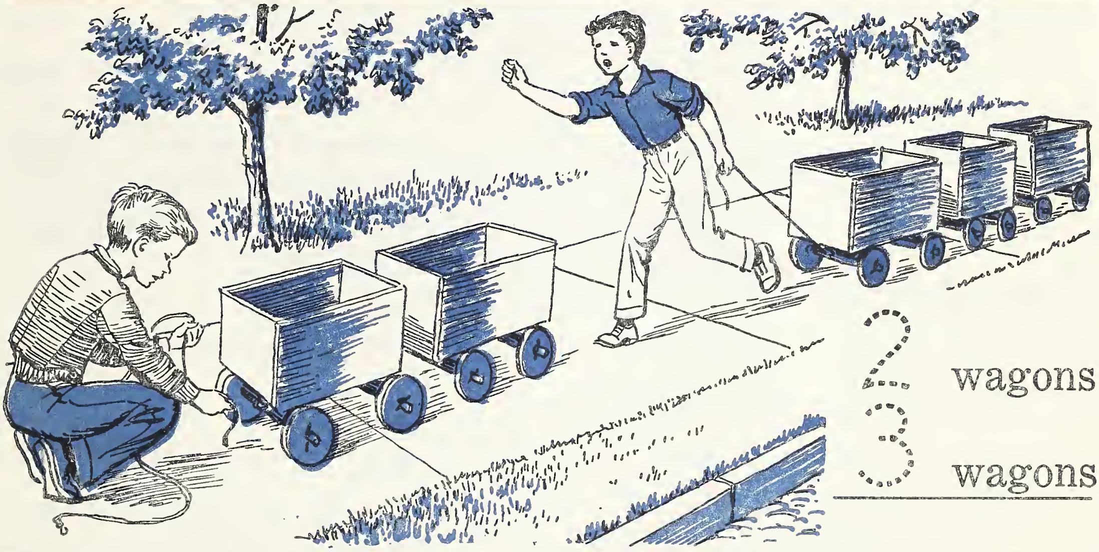
2 and 3 are ____



3 boats

2 boats

How many are 3 boats and 2 boats? ____ boats



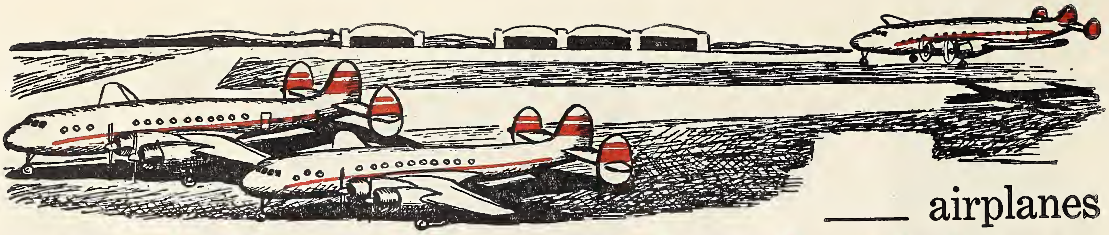
2 wagons

3 wagons

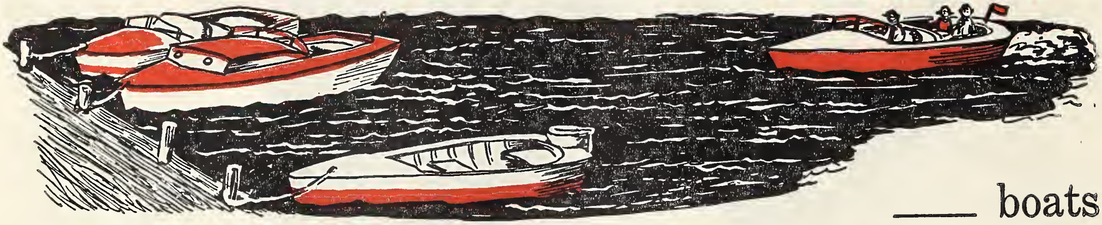
How many are 2 wagons and 3 wagons? ____ wagons

Tell how many there are in all.

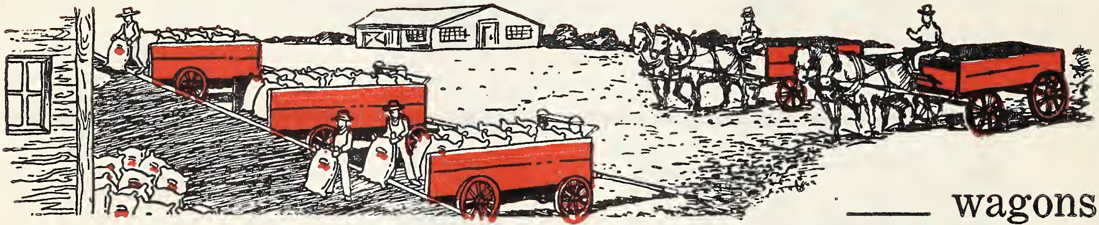
1 boat	2 chickens	3 wagons	3 dogs
3 boats	3 chickens	1 wagon	2 dogs
____boats	____chickens	____wagons	____dogs



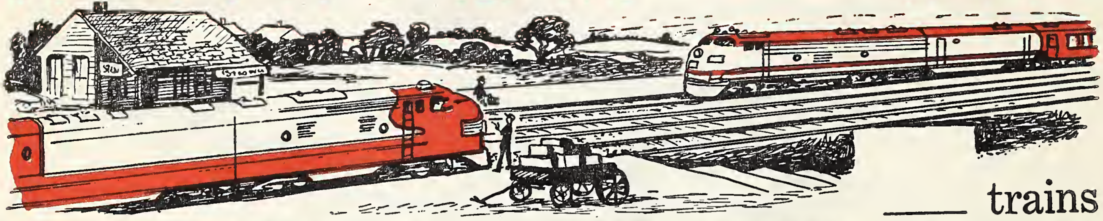
____ airplanes



____ boats



____ wagons



____ trains

Tell how many there are in all.

4 hens
1 hen
____hens

3 pigs
1 pig
____pigs

3 kittens
2 kittens
____kittens

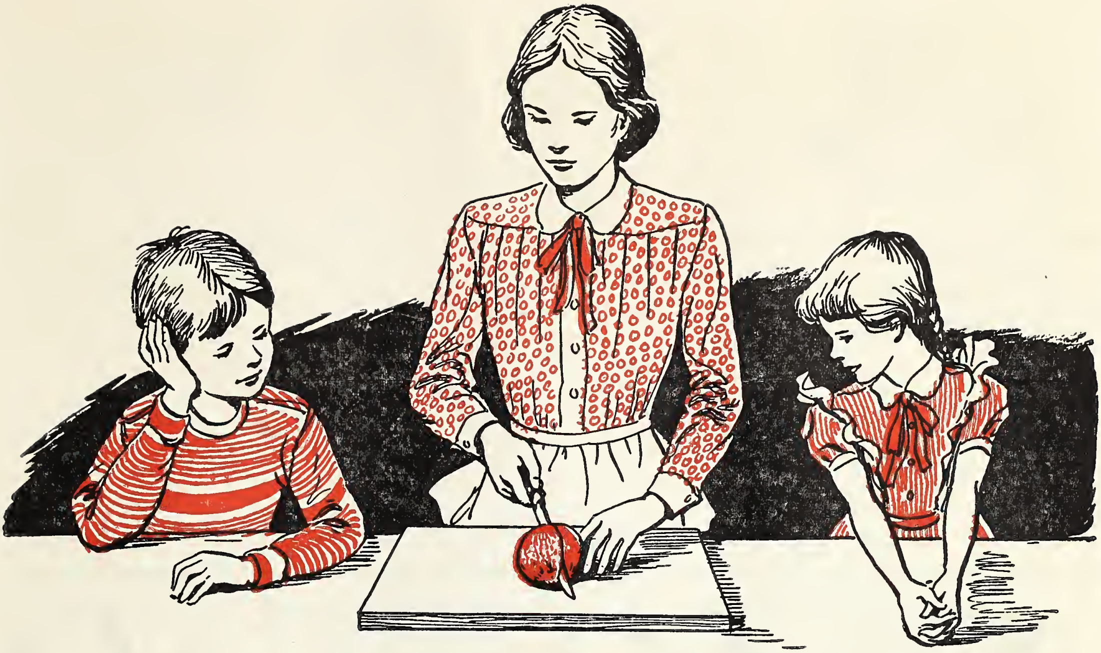
1 chicken
2 chickens
____chickens

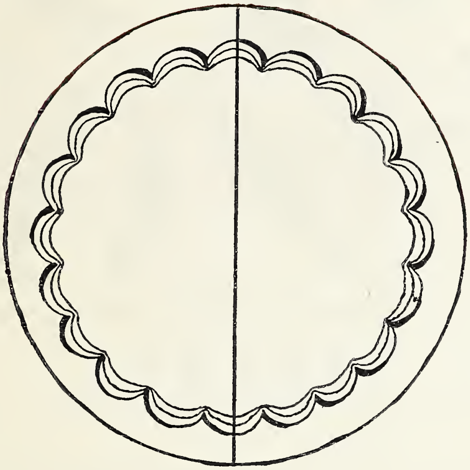
1 dog
3 dogs
____dogs

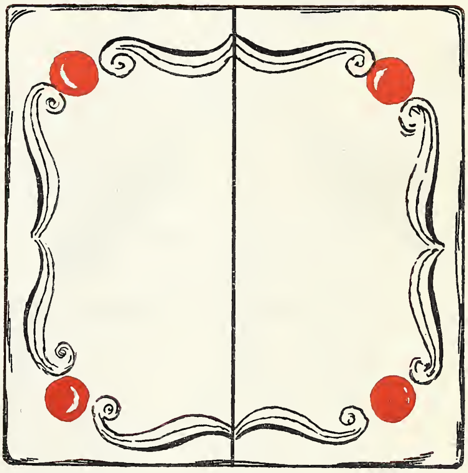
2 cows
2 cows
____cows

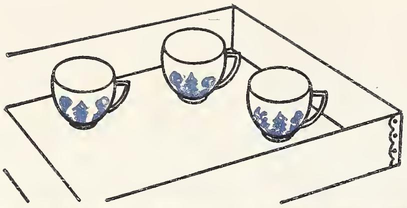
1 wagon
4 wagons
____wagons

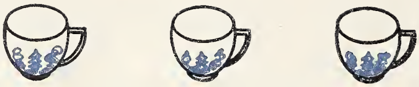
2 airplanes
3 airplanes
____airplanes





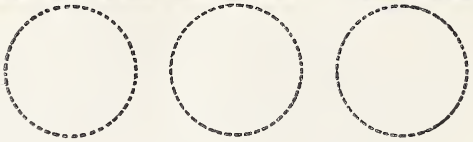






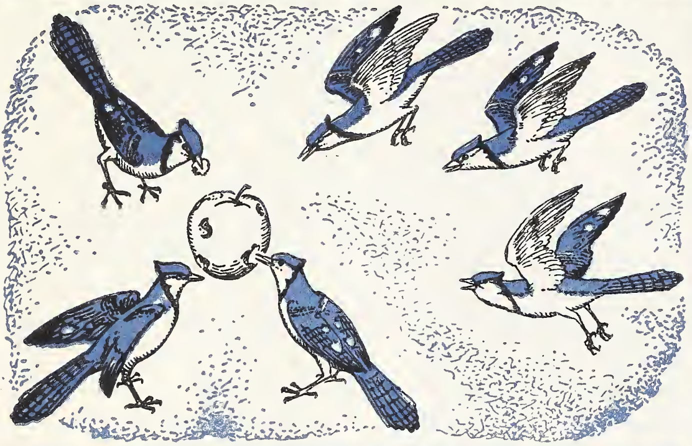
Tell how many there are. ____

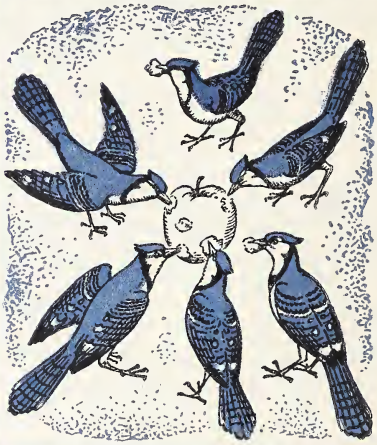
Draw 3 balls.



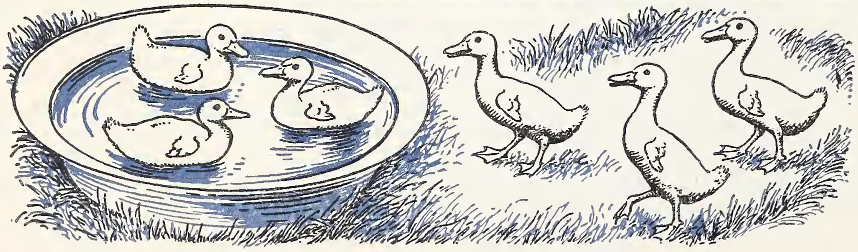
Draw 3 balls.

____





3 and 3 are ____

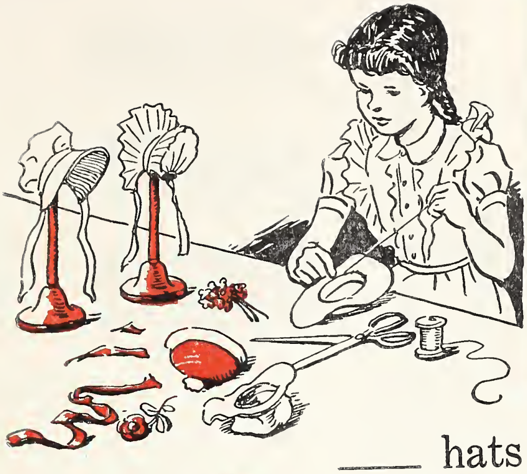


3 ducks

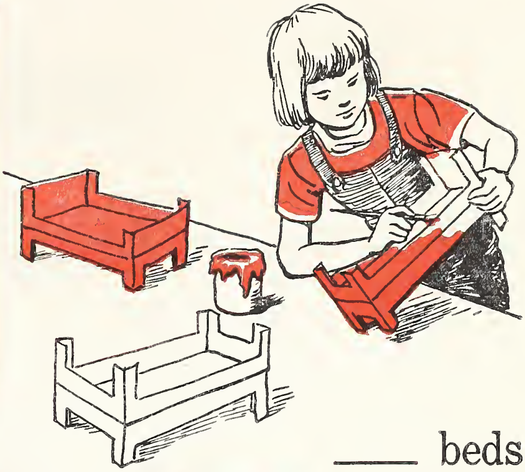
3 ducks

How many are 3 ducks and 3 ducks?

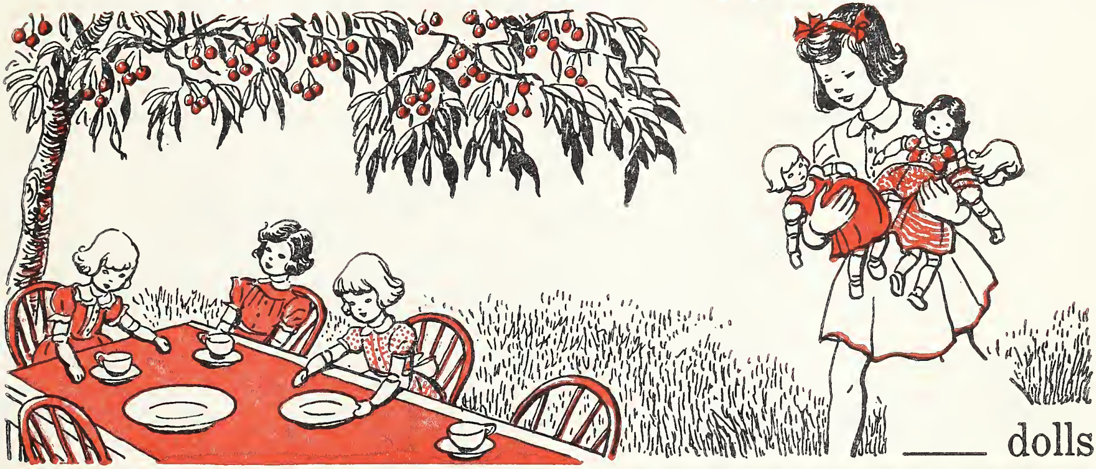
____ ducks



____ hats



____ beds

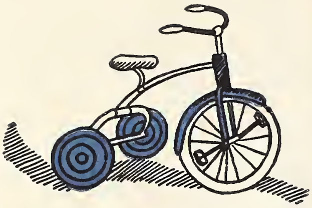


____ dolls

Tell how many there are in all.

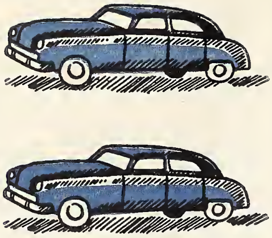
2 pigs	1 kitten	3 hens	1 duck
1 pig	4 kittens	3 hens	3 ducks
____pigs	____kittens	____hens	____ducks

3 cows	1 rabbit	4 dogs	2 ponies
2 cows	1 rabbit	1 dog	3 ponies
____cows	____rabbits	____dogs	____ponies



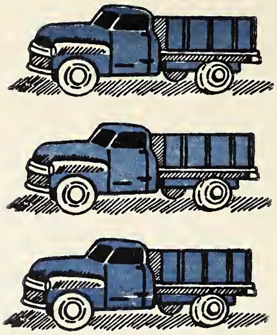
___

one



___

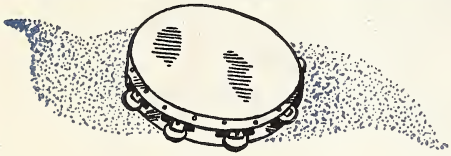
two

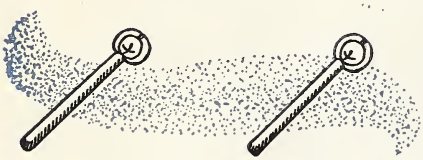


___

three

two ___ one ___ three ___

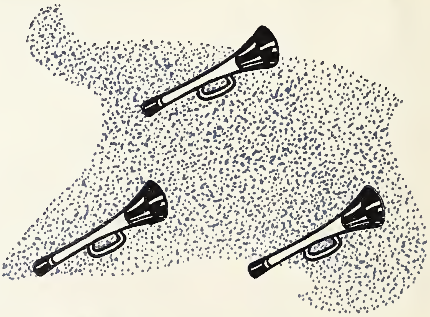




one

two

three



Draw one boat.

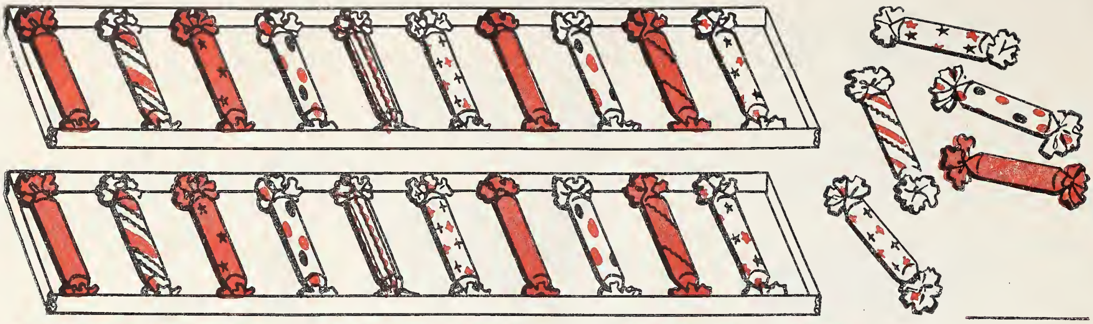
Draw three boats.

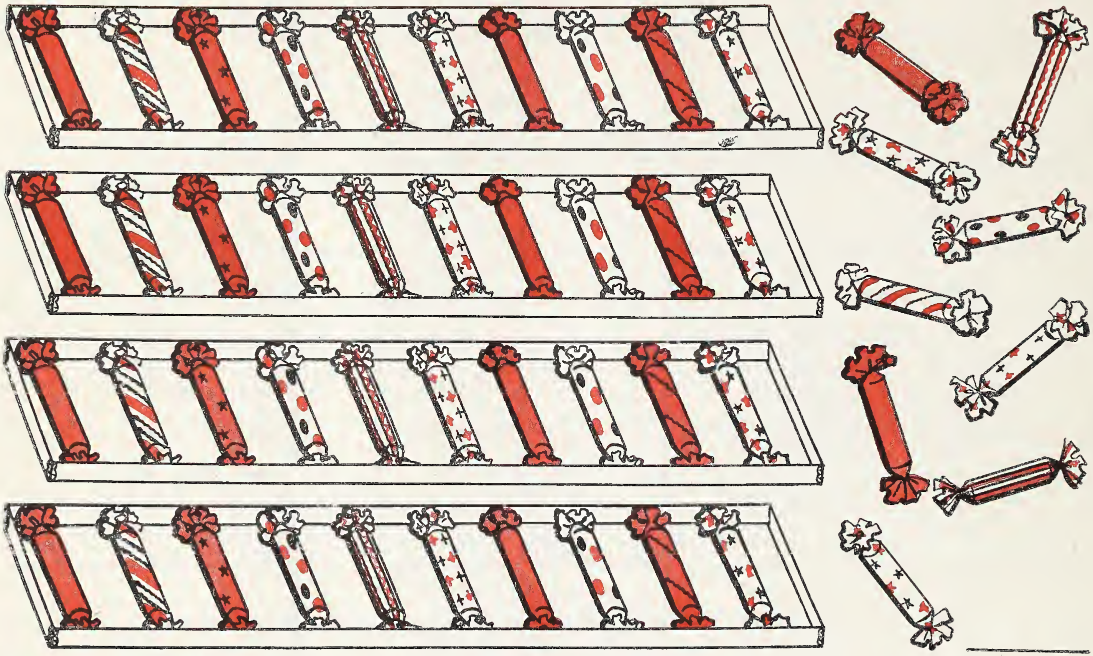
Draw two boats.

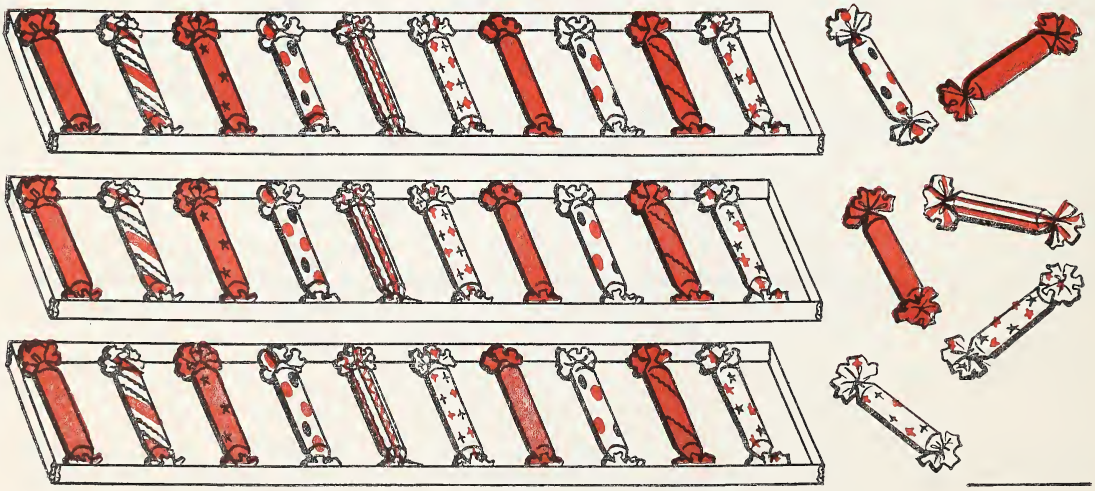
1	11			
10				

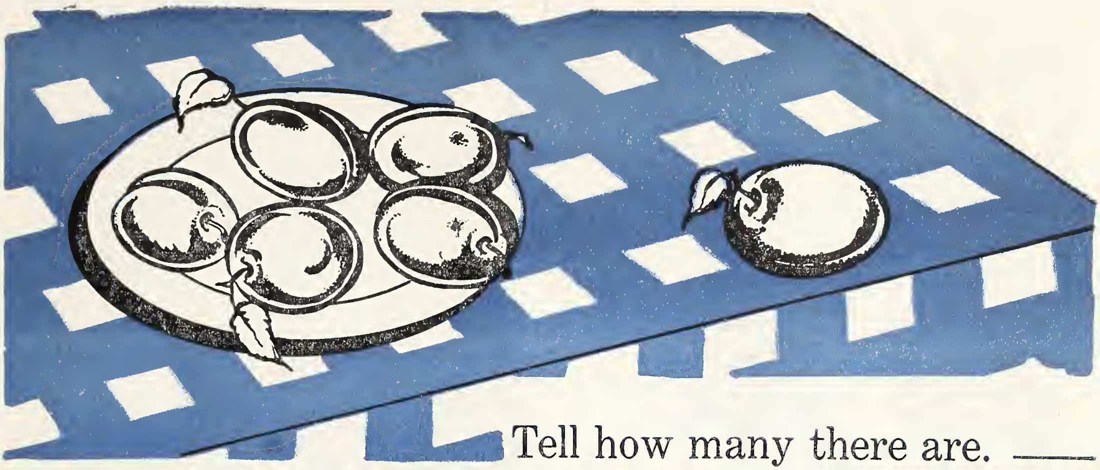
31	41
33	43
35	45
37	47
39	49

three ____ one ____ two ____

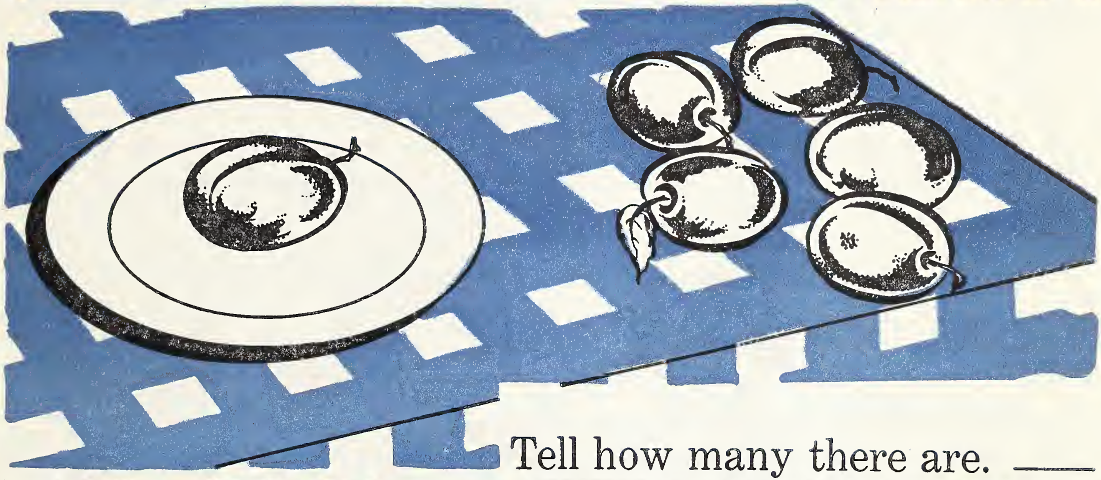






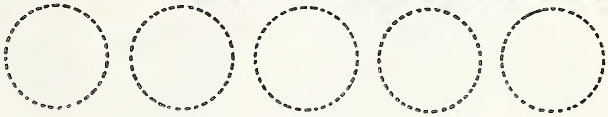


Tell how many there are. ___



Tell how many there are. ___

Draw 5 balls.



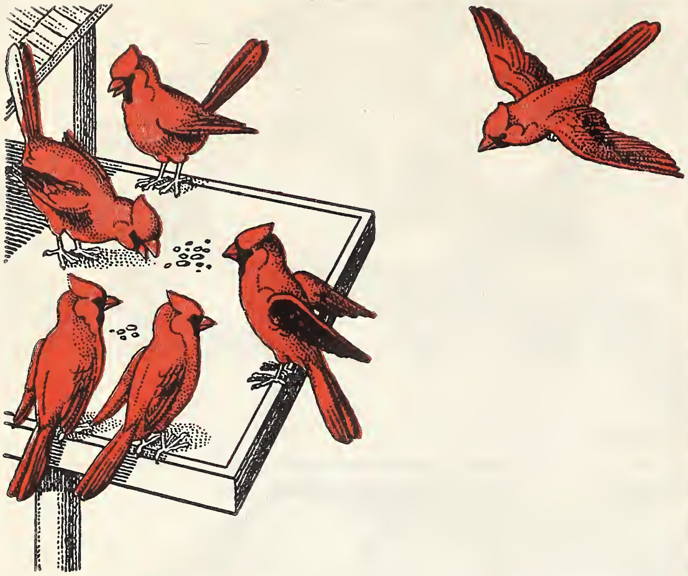
Draw 1 ball.

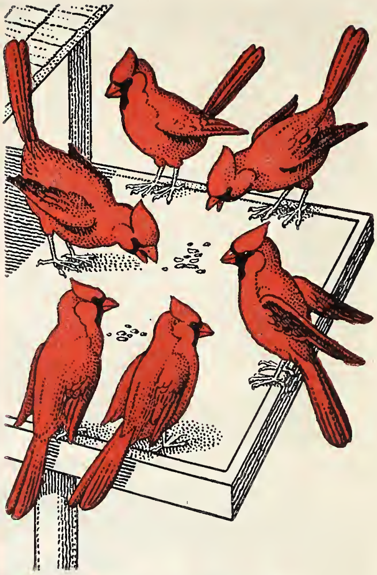
___

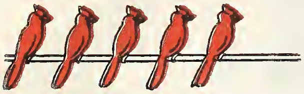
Draw 1 ball.

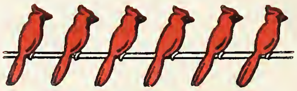
Draw 5 balls.

___

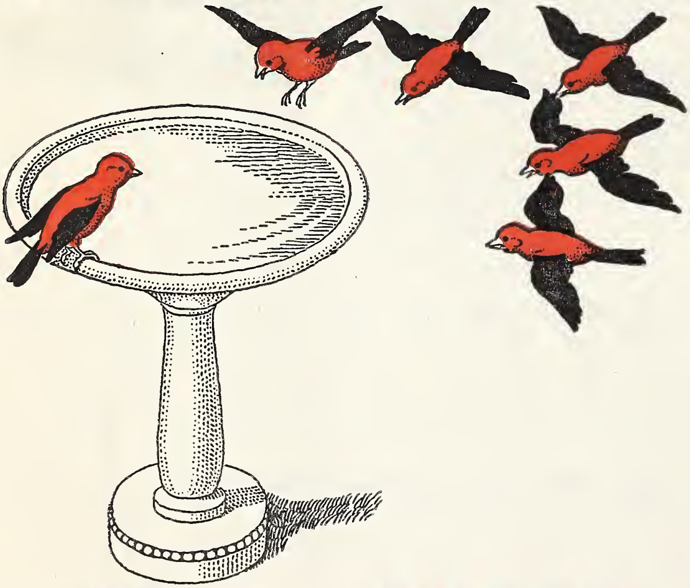


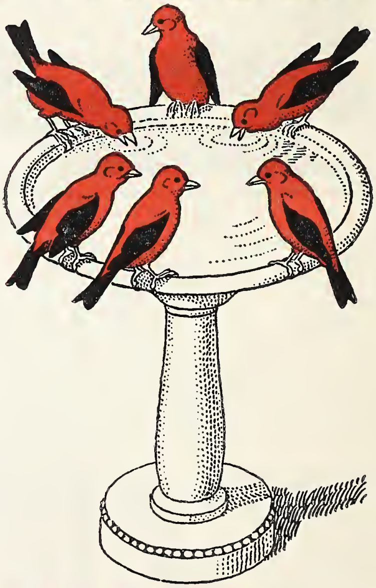


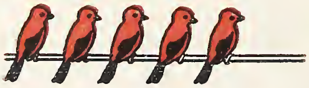


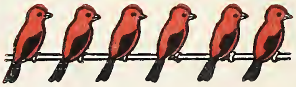


5 and 1 are ____









1 and 5 are ____

5 trees
1 tree

How many are 5 trees and 1 tree? ____ trees

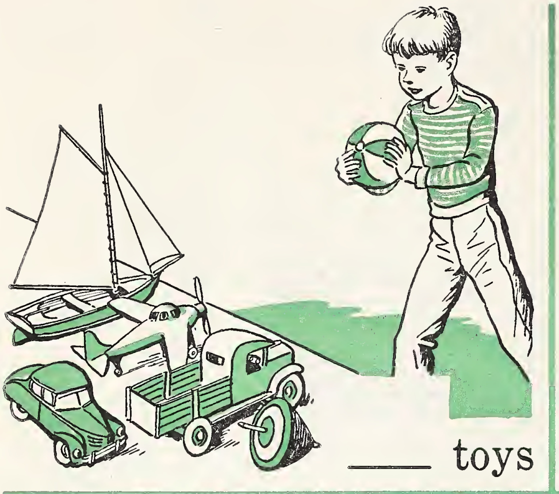
---

1 cake
5 cakes

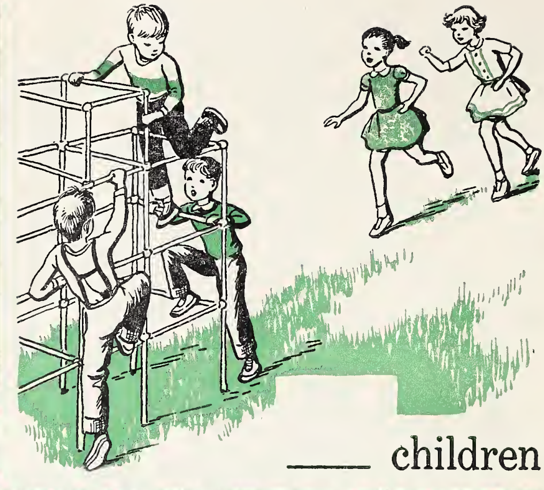
How many are 1 cake and 5 cakes? ____ cakes

Tell how many there are in all.

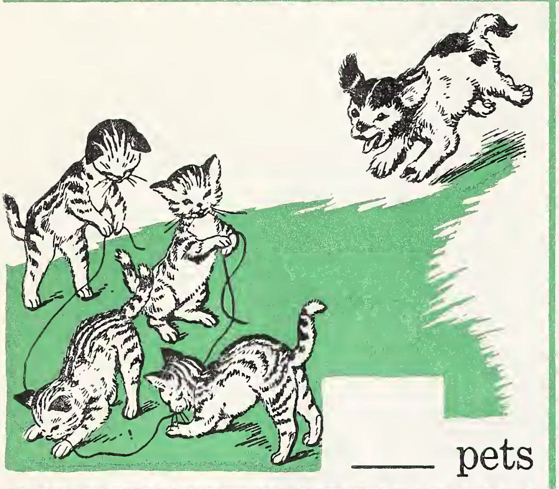
5 kittens	3 pigs	3 hens	1 dog
1 kitten	3 pigs	2 hens	5 dogs
____kittens	____pigs	____hens	____dogs



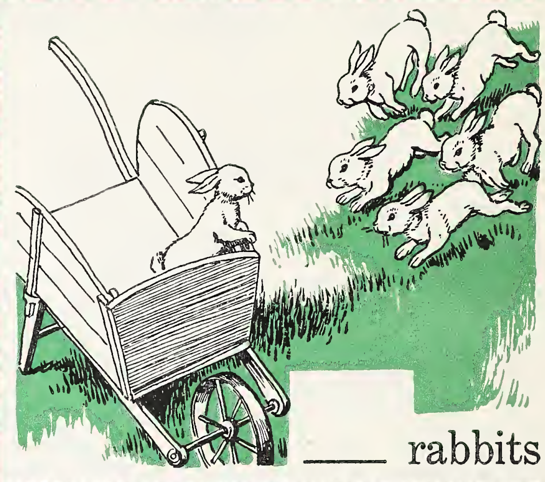
____ toys



____ children



____ pets

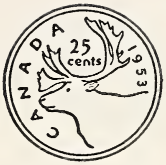


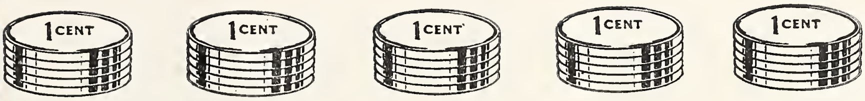
____ rabbits

Tell how many there are in all.

3 dogs	1 hen	5 cows	1 pony
3 dogs	2 hens	1 cow	4 ponies
____dogs	____hens	____cows	____ponies

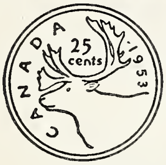
3 pets	1 pig	1 duck	2 kittens
1 pet	5 pigs	1 duck	3 kittens
____pets	____pigs	____ducks	____kittens

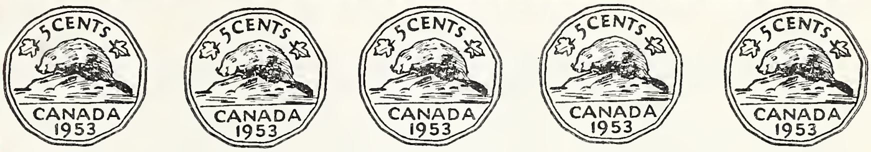




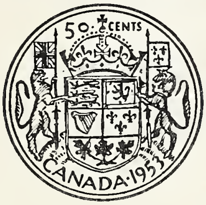
5 10 15 20 25

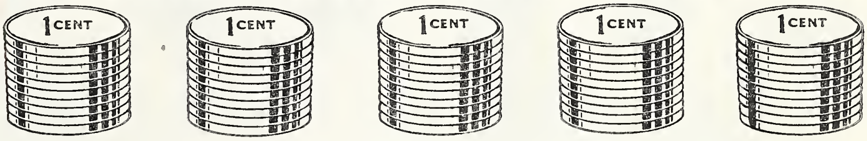
How many? ______





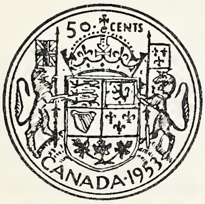
How many? ______

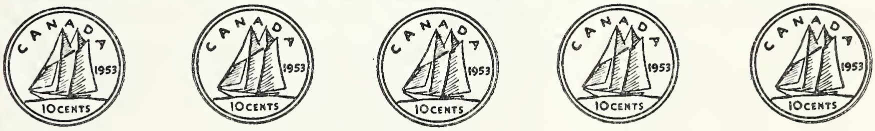




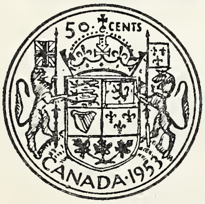
10 20 30 40 50

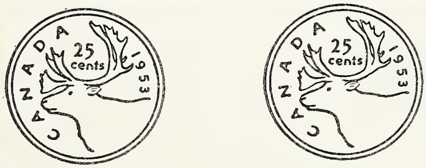
How many? ______



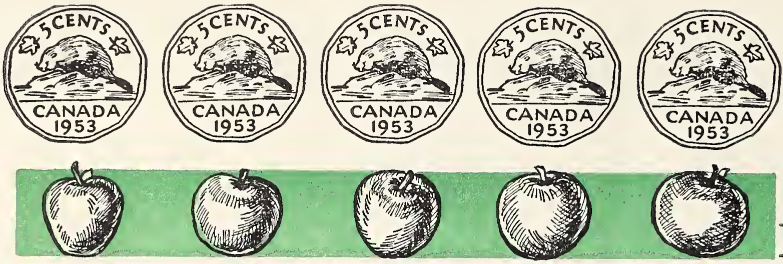


How many? ______

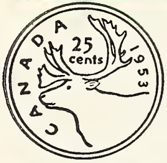




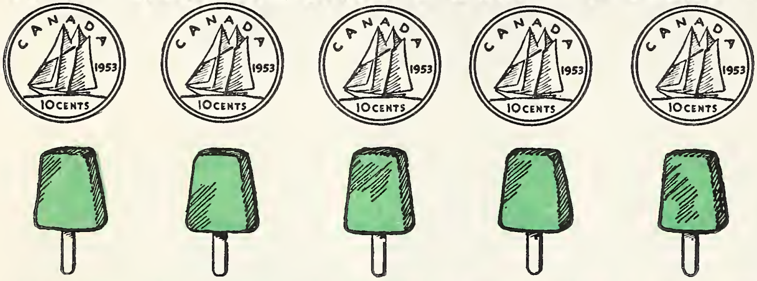
How many? ______



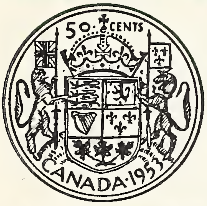
How many? ____



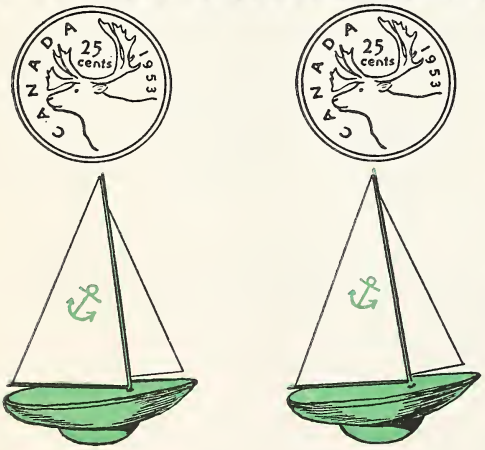
How many? ____



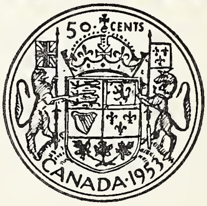
How many? ____



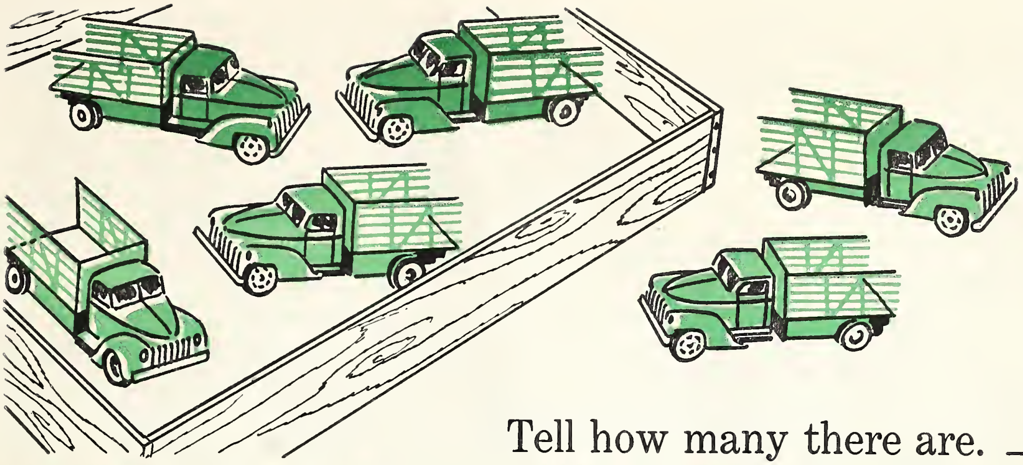
How many? ____



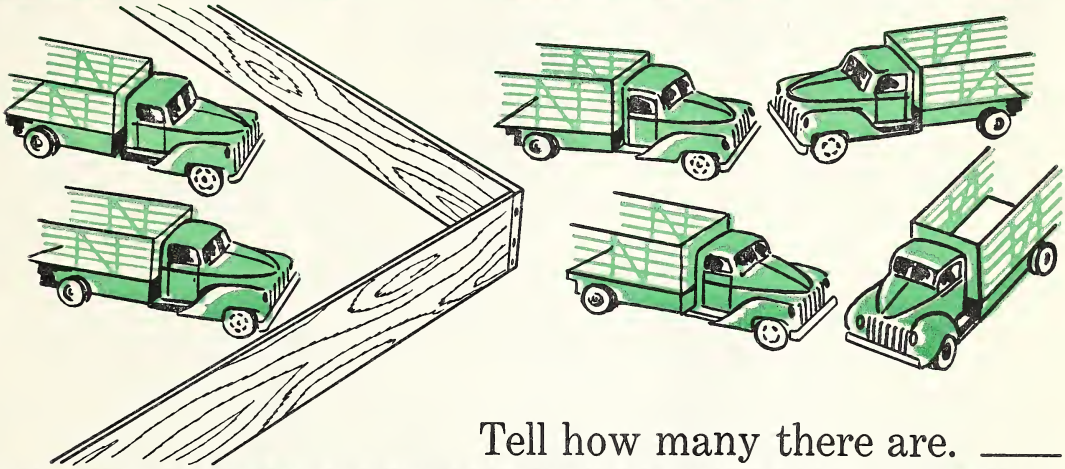
How many? ____



How many? ____



Tell how many there are. ____



Tell how many there are. ____

Draw 4 balls.

Draw 2 balls.

____

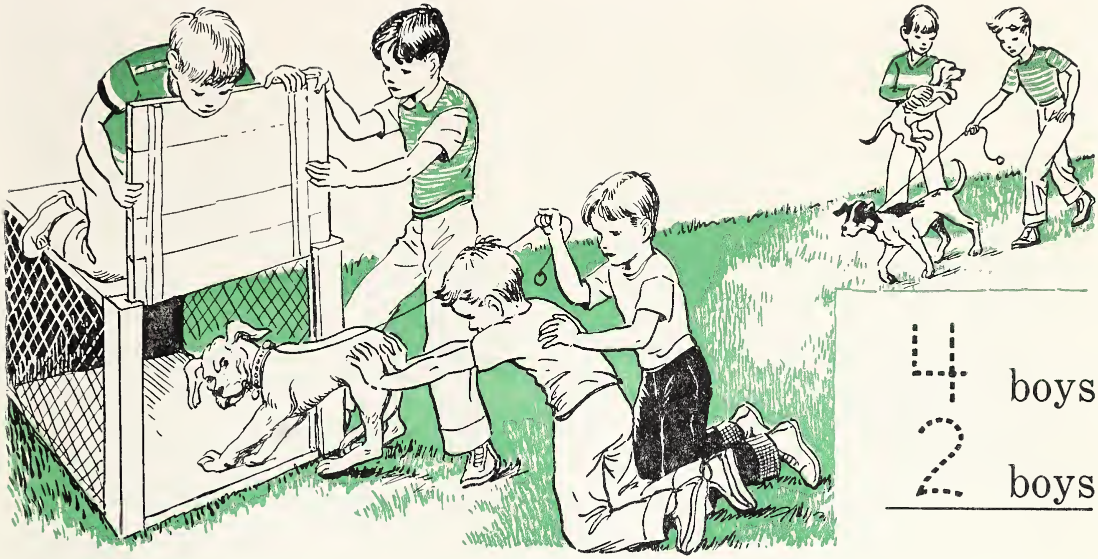
Draw 2 balls.

Draw 4 balls.

____

4 and 2 are ____

2 and 4 are ____



4 boys

2 boys

How many are 4 boys and 2 boys? ____ boys

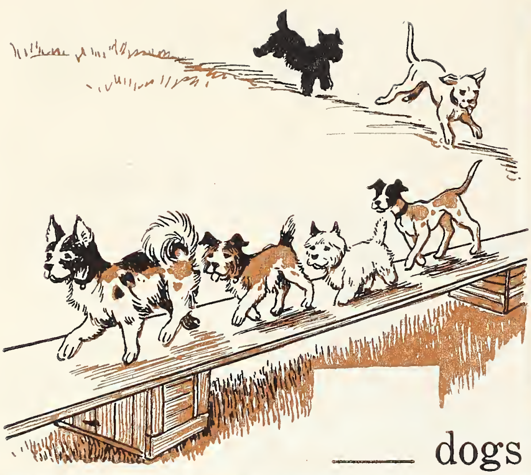
2 girls

4 girls

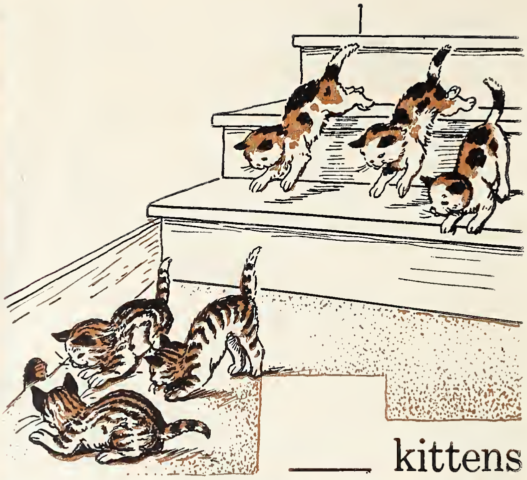
How many are 2 girls and 4 girls? ____ girls

Tell how many there are in all.

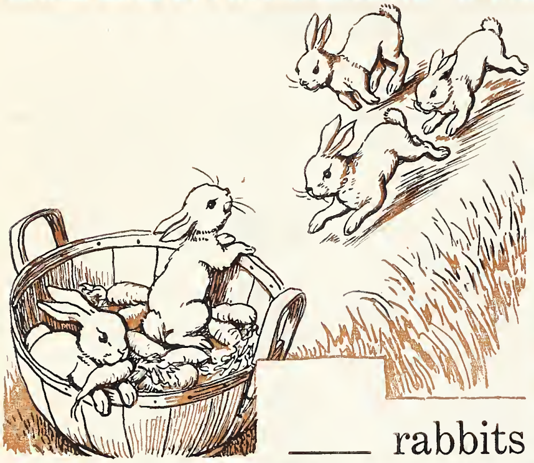
2 cakes	2 pigs	2 cows	4 ponies
4 cakes	2 pigs	3 cows	2 ponies
____cakes	____pigs	____cows	____ponies



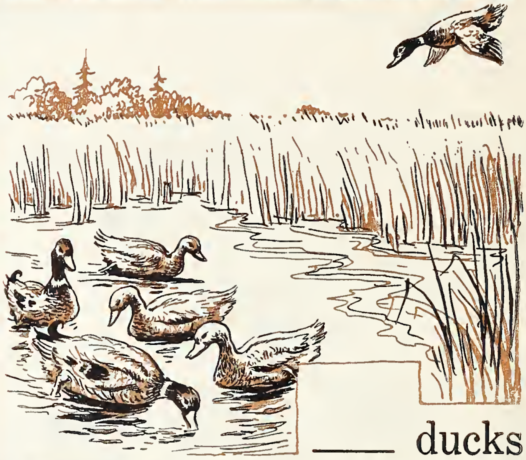
____ dogs



____ kittens



____ rabbits

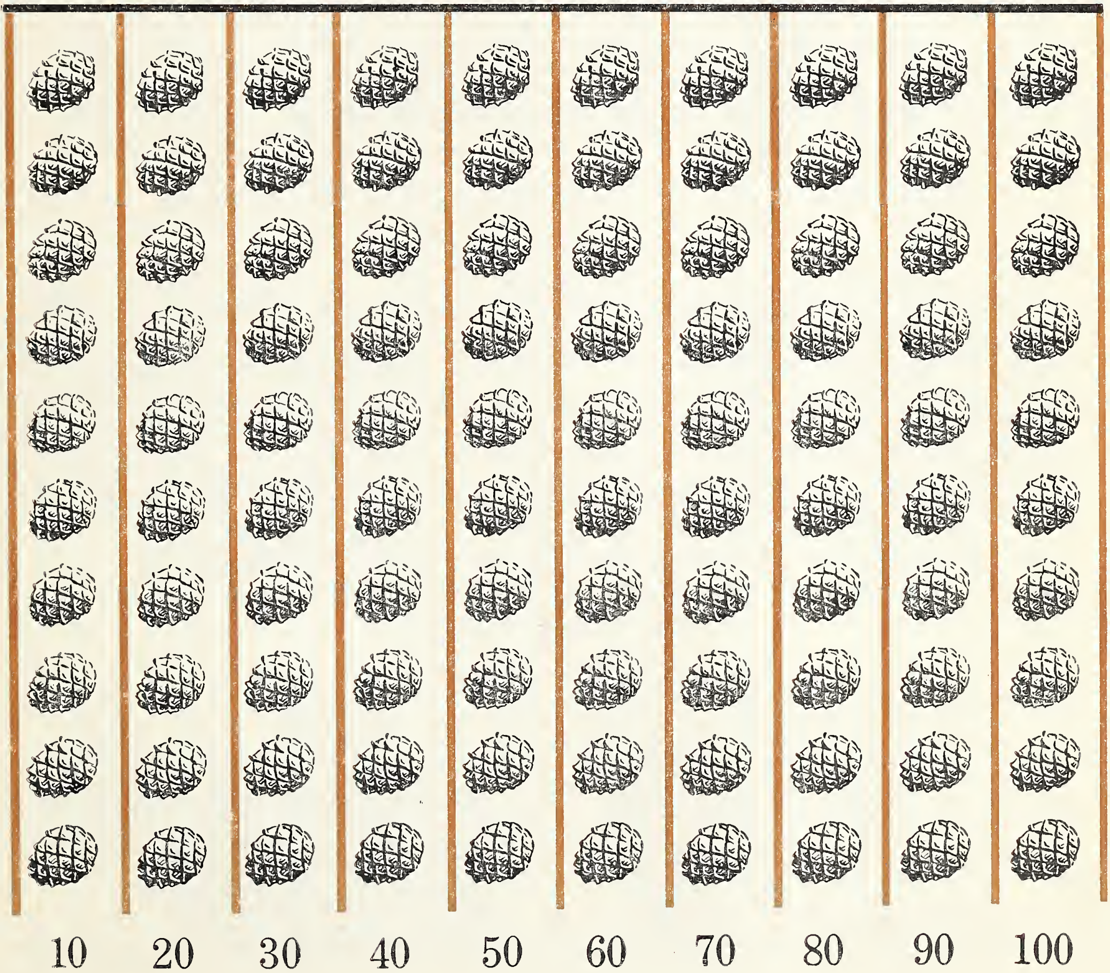


____ ducks

Tell how many there are in all.

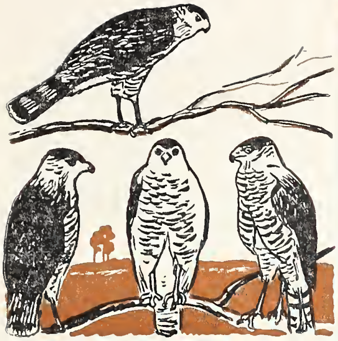
4 boats	5 beds	3 dolls	4 airplanes
2 boats	1 bed	2 dolls	1 airplane
____boats	____beds	____dolls	____airplanes

1 hat	2 balls	2 trains	3 wagons
5 hats	1 ball	4 trains	3 wagons
____hats	____balls	____trains	____wagons


10
20
30
40
50
60
70
80
90
100

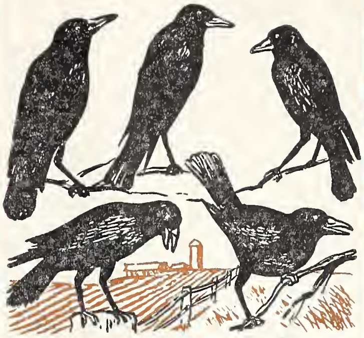
1	11	21	31	41	51	61	71	81	91
2	12	22	32	42	52	62	72	82	92
3	13	23	33	43	53	63	73	83	93
4	14	24	34	44	54	64	74	84	94
5	15	25	35	45	55	65	75	85	95
6	16	26	36	46	56	66	76	86	96
7	17	27	37	47	57	67	77	87	97
8	18	28	38	48	58	68	78	88	98
9	19	29	39	49	59	69	79	89	99
10	20	30	40	50	60	70	80	90	100

1	11	21	31	41	51	61	71	81	91
2									
3									
4									
5									
6									
7									
8									
9									
10	20								



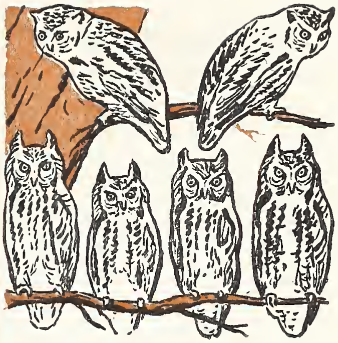
______

four



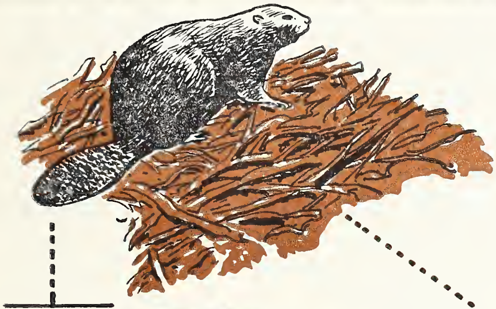
______

five

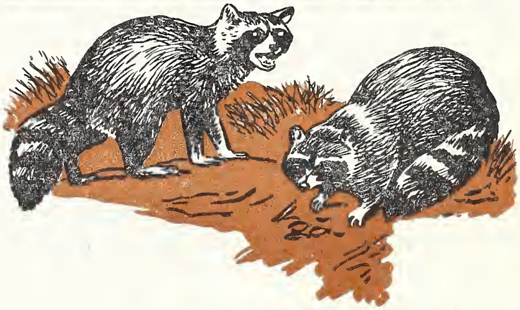


______

six

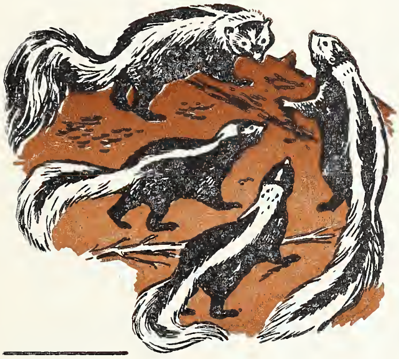


______

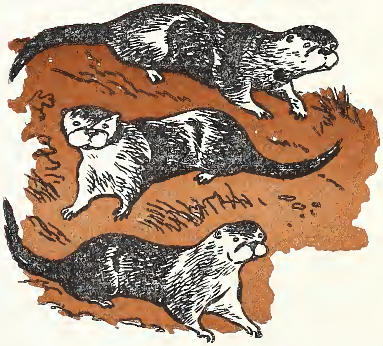


______

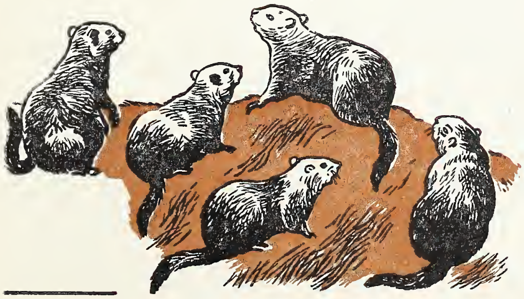
one
two
three
four
five
six



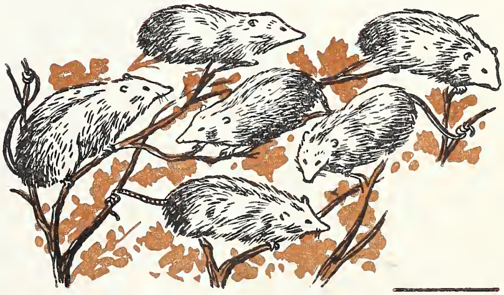
______



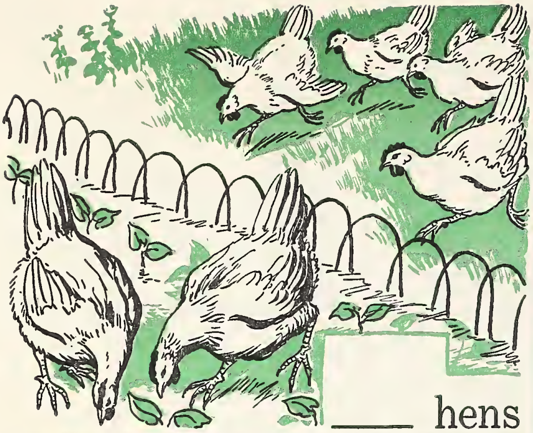
______



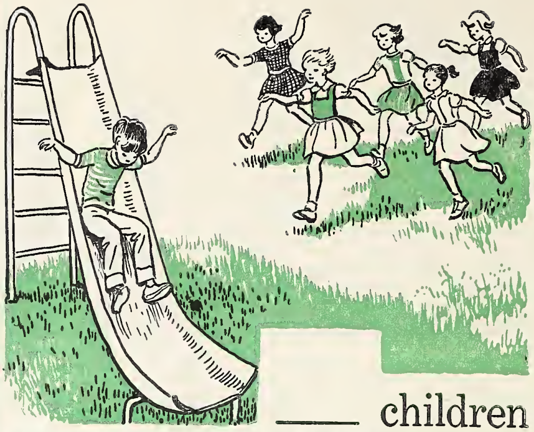
______



______



____ hens



____ children

Tell how many there are in all.

3 hats
1 hat
____hats

4 ducks
2 ducks
____ducks

1 boat
1 boat
____boats

2 dogs
3 dogs
____dogs

5 pets
1 pet
____pets

2 cakes
2 cakes
____cakes

1 doll
4 dolls
____dolls

1 toy
2 toys
____toys

3 pigs
2 pigs
____pigs

1 tree
5 trees
____trees

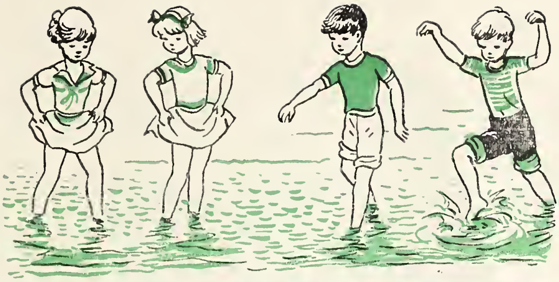
3 balls
3 balls
____balls

4 beds
1 bed
____beds

2 kittens
4 kittens
____kittens

2 chickens
1 chicken
____chickens

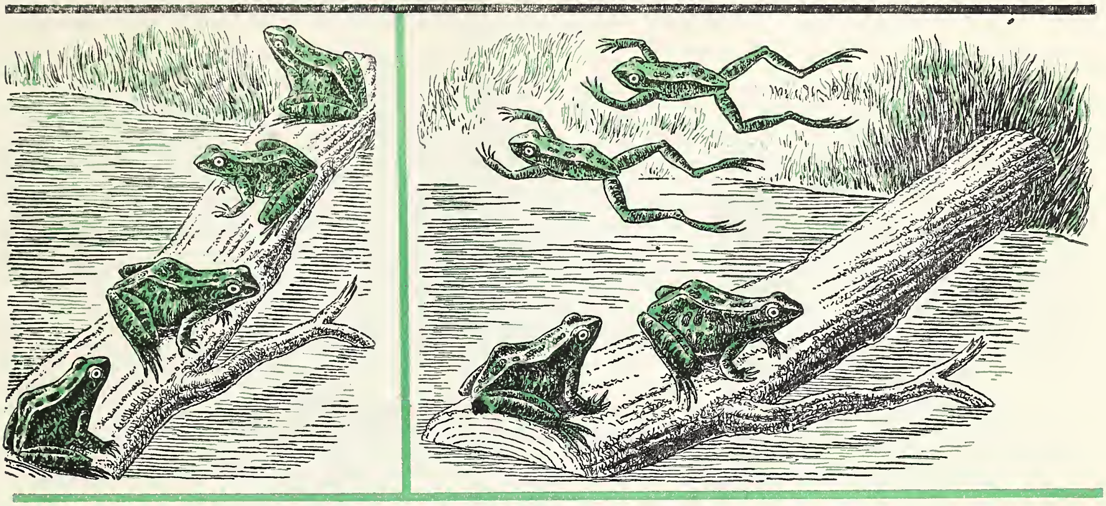
1 airplane
3 airplanes
____airplanes



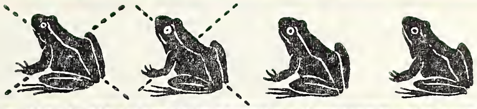
How many children? ____

How many are boys? ____

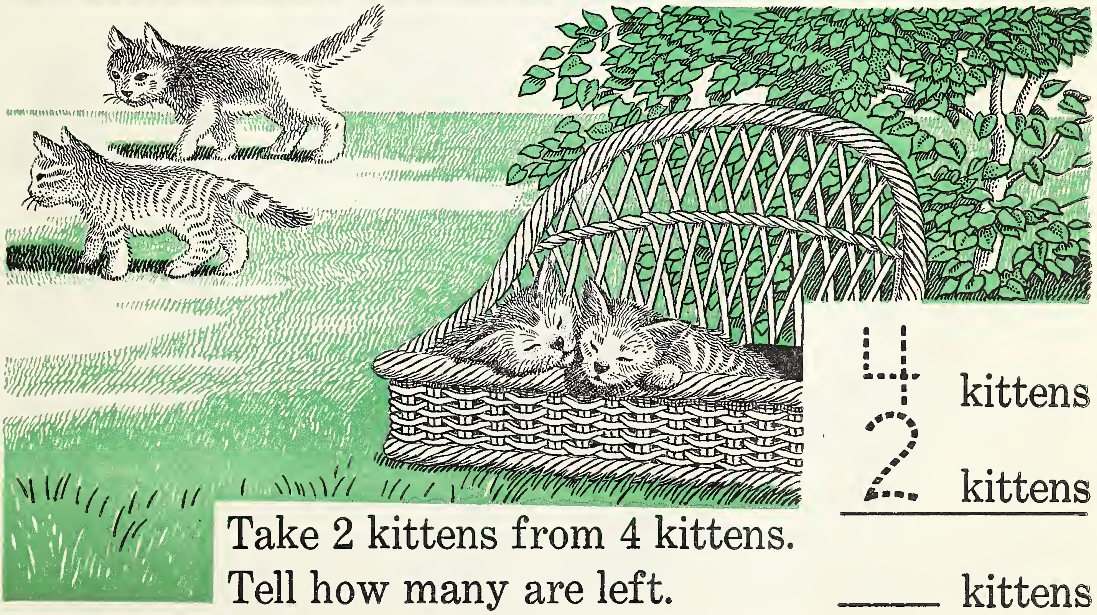
How many are girls? ____



Take 2 from 4.



____ left

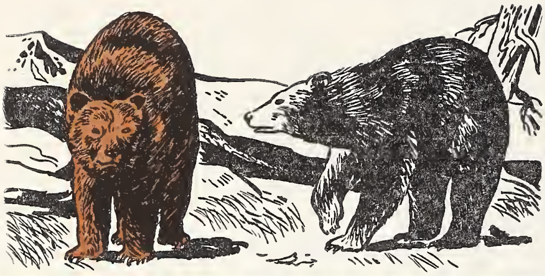


4 kittens

2 kittens

____ kittens

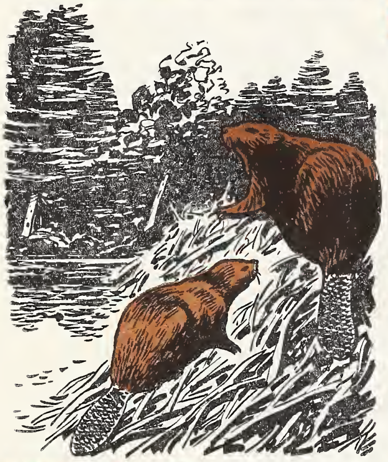
Take 2 kittens from 4 kittens.
Tell how many are left.

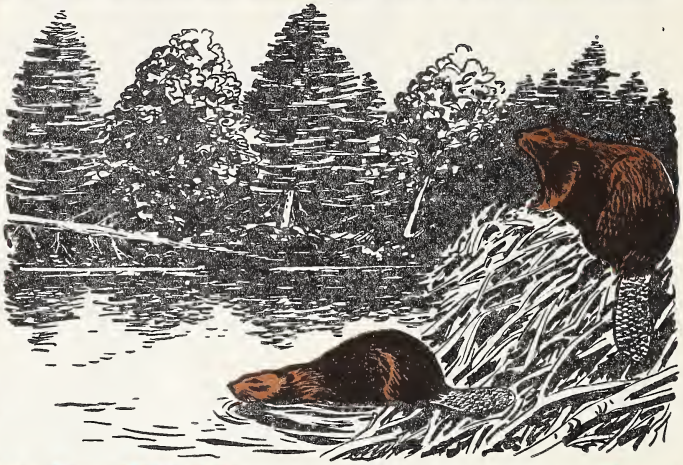


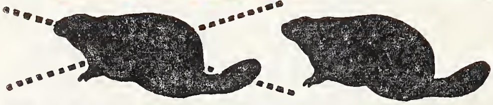
How many in all? ____

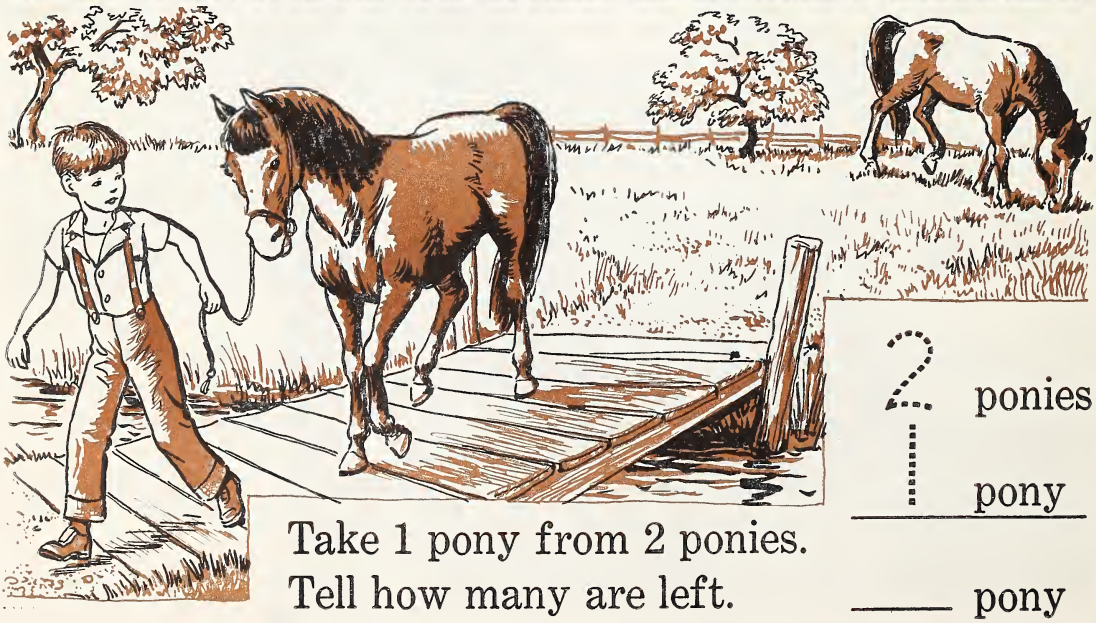
How many are brown? ____

How many are black? ____





Take 1 from 2.  ____ left

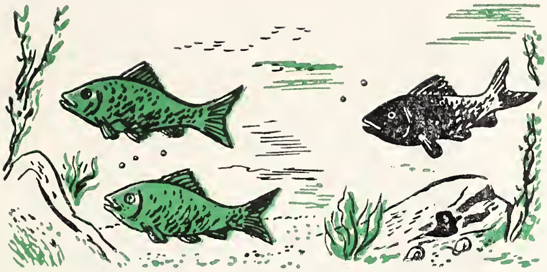


2 ponies

1 pony

____ pony

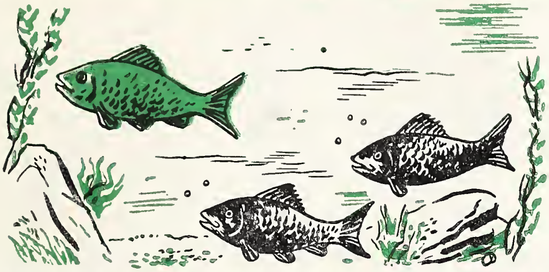
Take 1 pony from 2 ponies.
Tell how many are left.



How many in all? ____

How many are green? ____

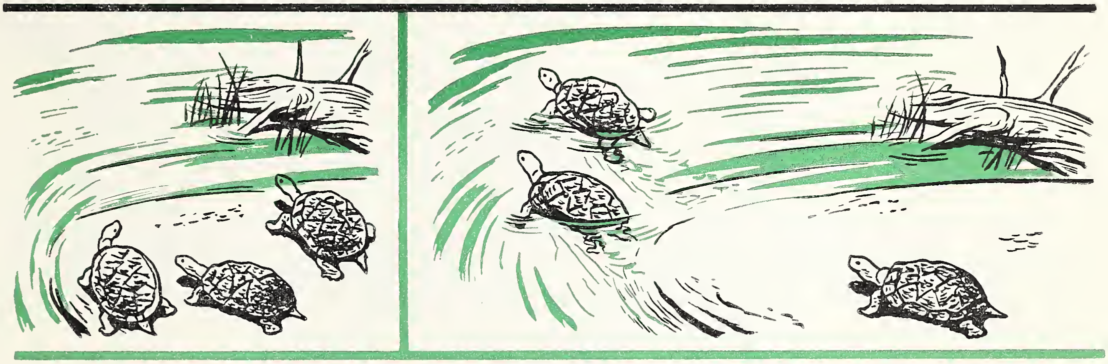
How many are black? ____



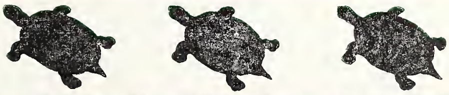
How many in all? ____

How many are green? ____

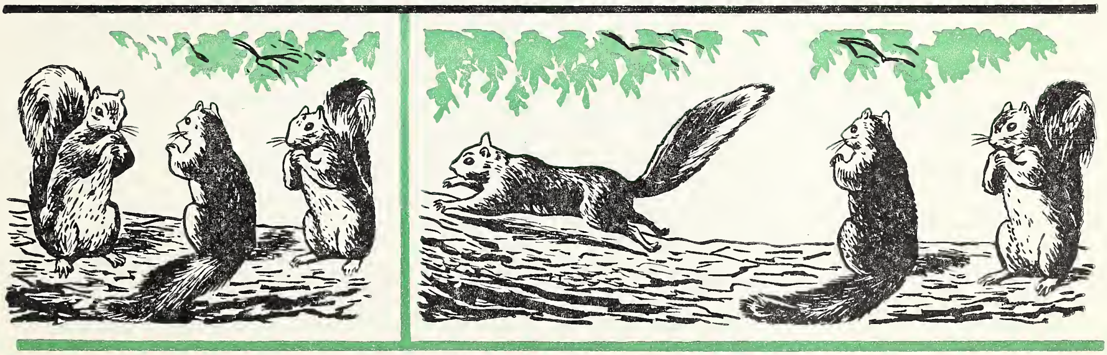
How many are black? ____



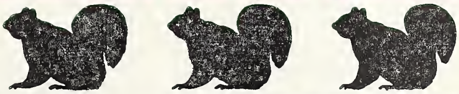
Take 2 from 3.



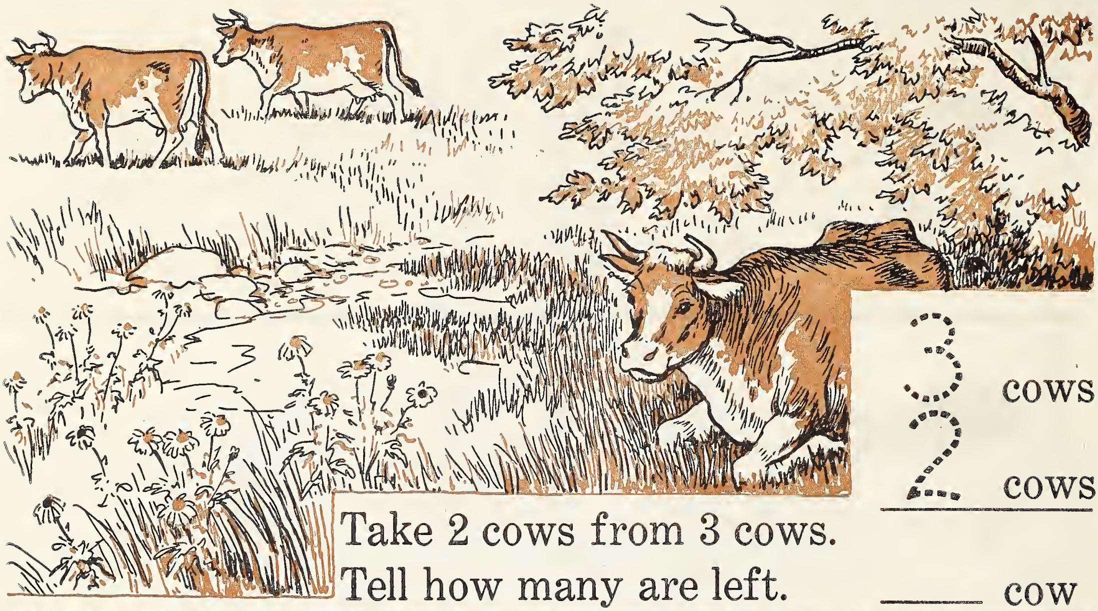
____ left



Take 1 from 3.

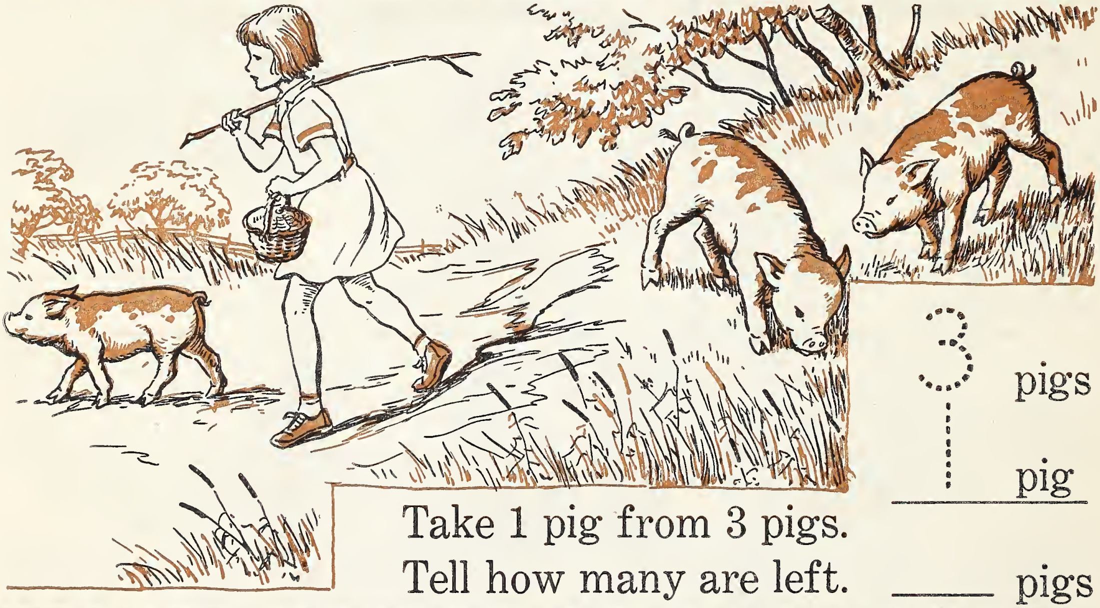


____ left



3 cows
2 cows
_____ cow

Take 2 cows from 3 cows.
Tell how many are left.

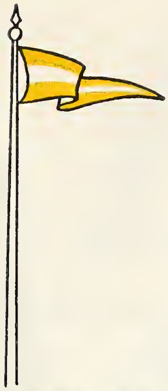


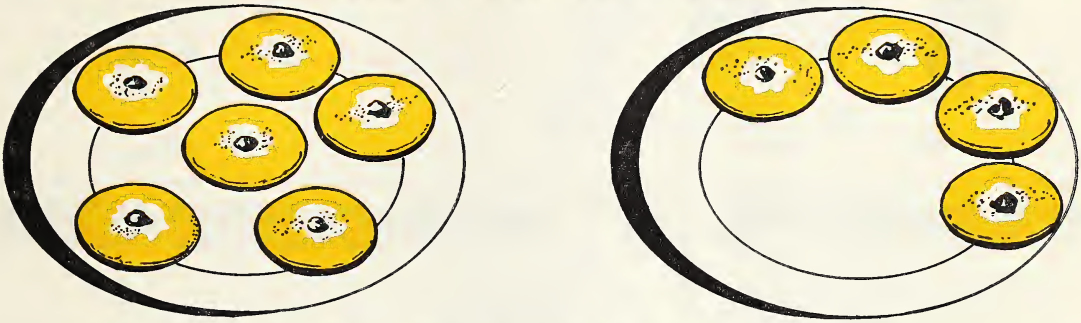
3 pigs
1 pig
_____ pigs

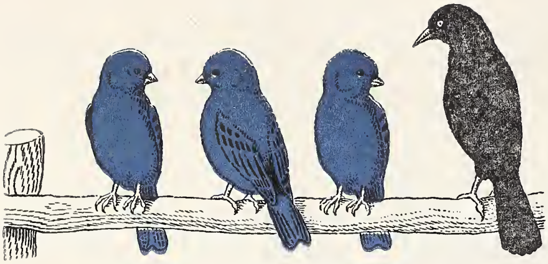
Take 1 pig from 3 pigs.
Tell how many are left.

Take away, and tell how many are left.

3 ducks	2 cows	4 pigs	3 kittens
1 duck	1 cow	2 pigs	2 kittens
____ducks	____cow	____pigs	____kitten



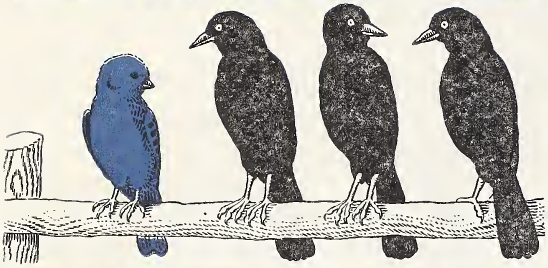




How many in all? ____

How many are blue? ____

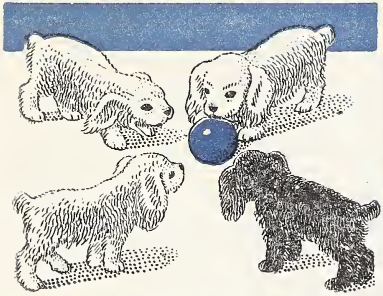
How many are black? ____

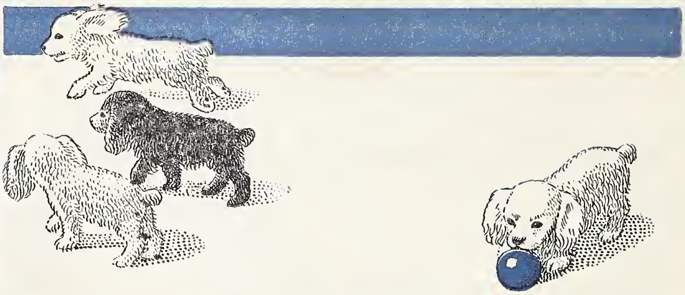


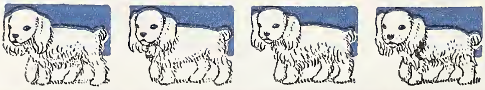
How many in all? ____

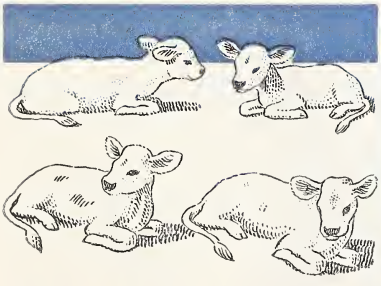
How many are blue? ____

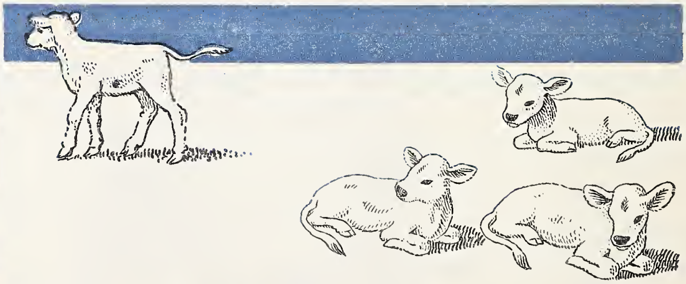
How many are black? ____

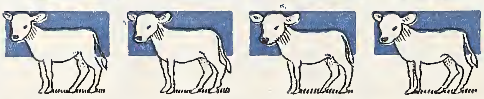


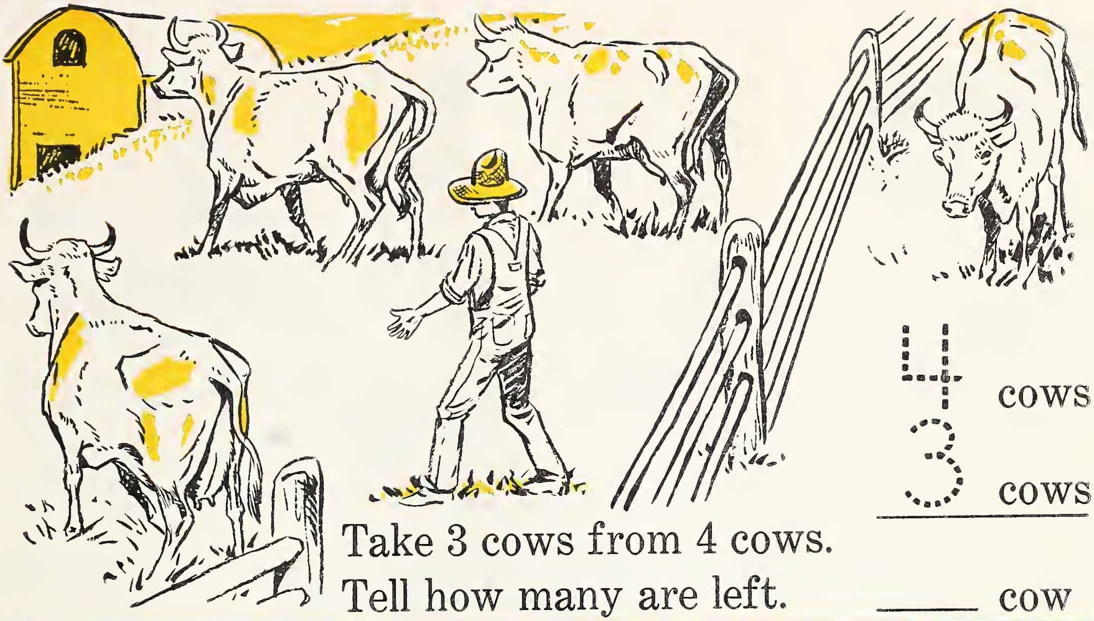


Take 3 from 4.  ____ left



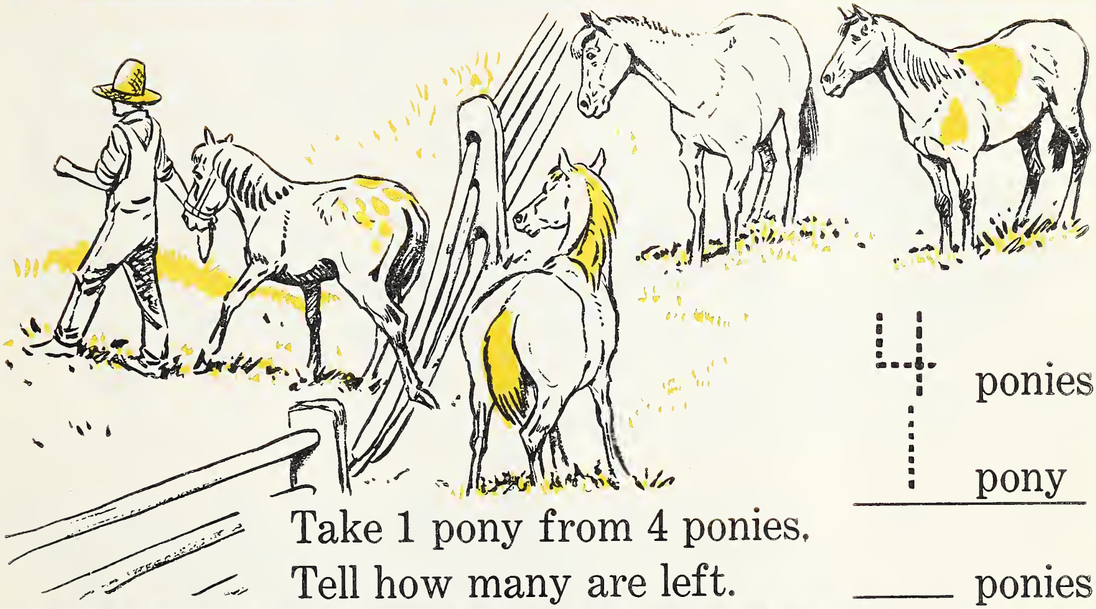


Take 1 from 4.  ____ left



Take 3 cows from 4 cows.
Tell how many are left.

4 cows
3 cows
____ cow



Take 1 pony from 4 ponies.
Tell how many are left.

4 ponies
1 pony
____ ponies

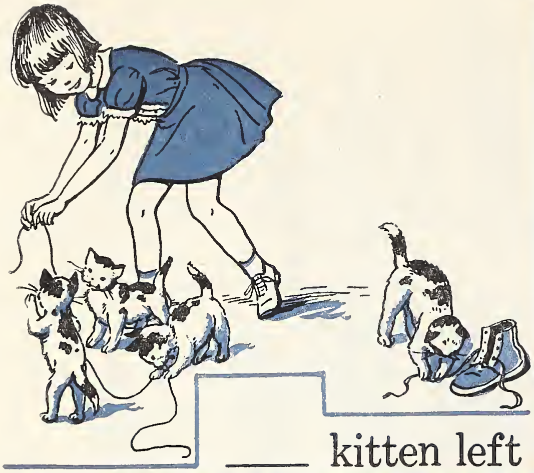
Take away, and tell how many are left.

2 ducks
1 duck
____duck

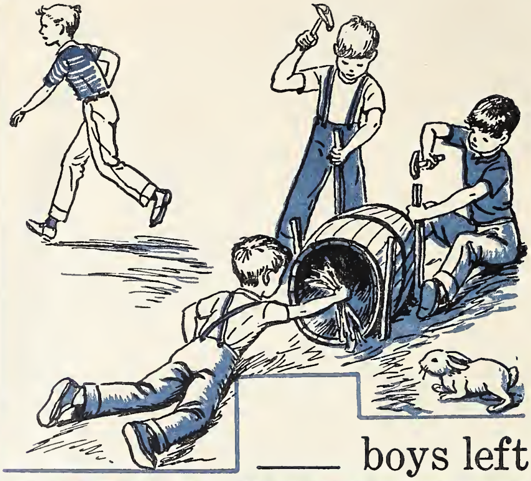
4 airplanes
3 airplanes
____airplane

3 boats
1 boat
____boats

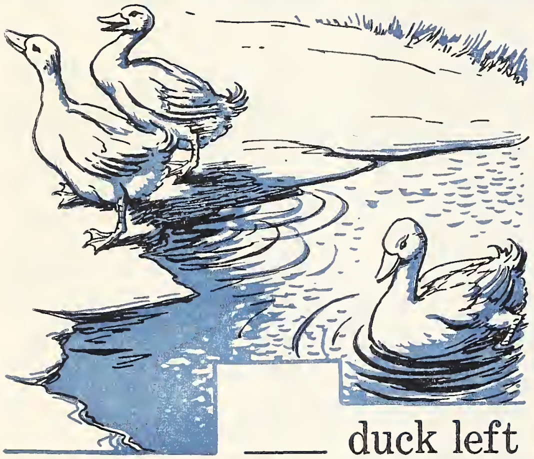
4 hens
1 hen
____hens



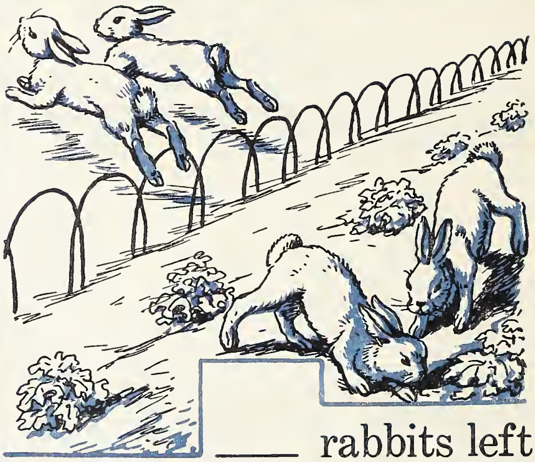
____ kitten left



____ boys left



____ duck left



____ rabbits left

Take away, and tell how many are left.

3 airplanes
2 airplanes

____airplane

2 trees
1 tree

____tree

3 trains
1 train

____trains

4 chickens
2 chickens

____chickens

4 toys
3 toys

____toy

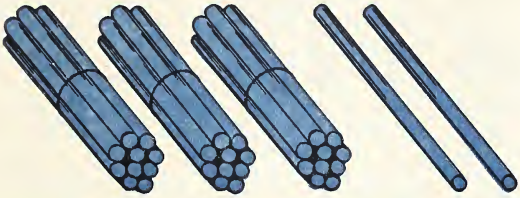
4 rabbits
1 rabbit

____rabbits

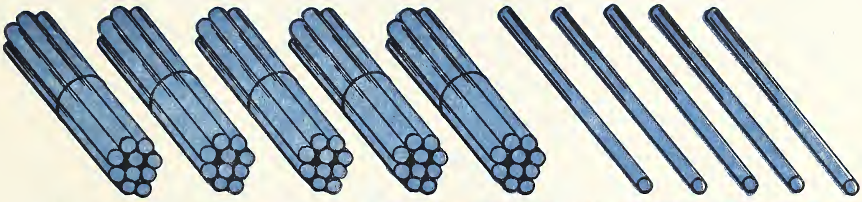
39 40 41 ______ 43 ______ ______ 46 ______

______ 49 ______ ______ 52 ______ ______ 55 ______

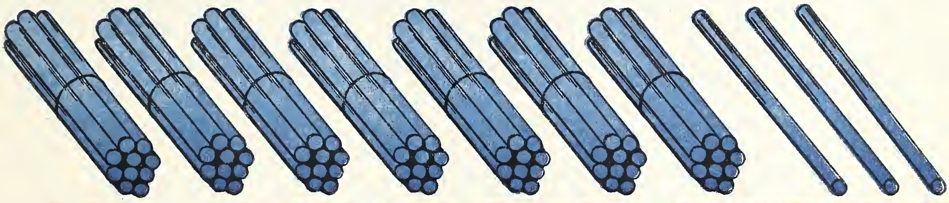
______ 58 ______ ______ 61 ______ ______ 64 ______



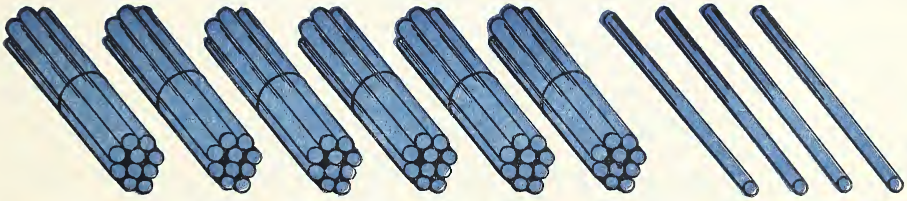
______



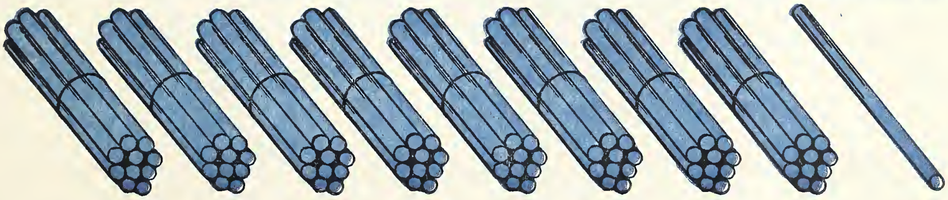
______



______



______



______

51	61	71	81	91	101	111	121	131	141
52	62	72	82	92	102	112	122	132	142
53	63	73	83	93	103	113	123	133	143
54	64	74	84	94	104	114	124	134	144
55	65	75	85	95	105	115	125	135	145
56	66	76	86	96	106	116	126	136	146
57	67	77	87	97	107	117	127	137	147
58	68	78	88	98	108	118	128	138	148
59	69	79	89	99	109	119	129	139	149
60	70	80	90	100	110	120	130	140	150

Draw three toys.

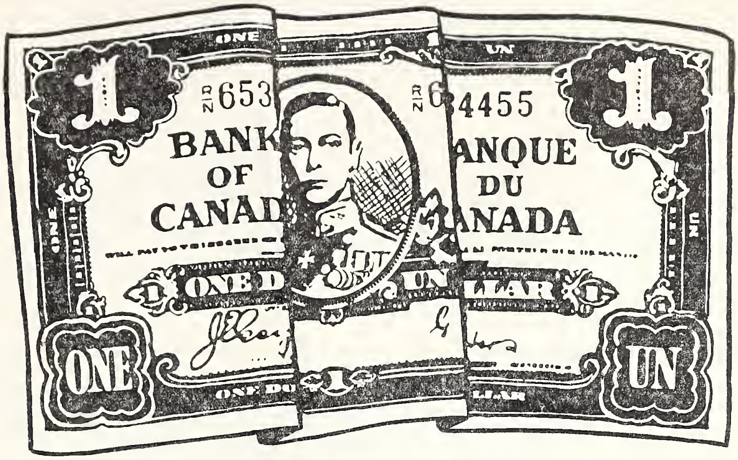
Draw six toys.

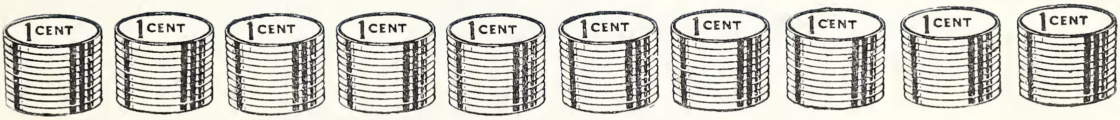
Draw five toys.

Draw one toy.

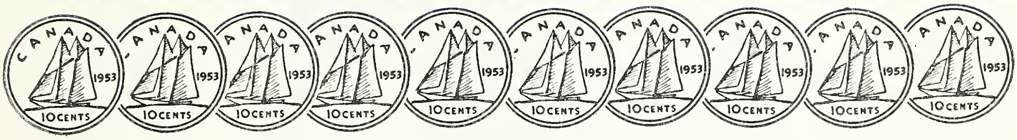
Draw two toys.

Draw four toys.

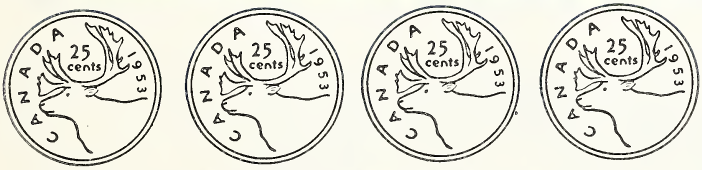




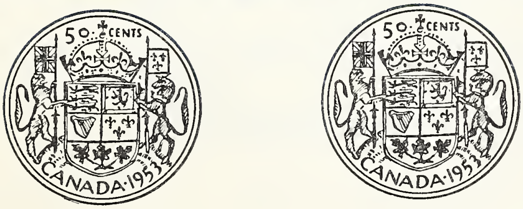
How many? ______



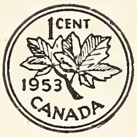
How many? ______

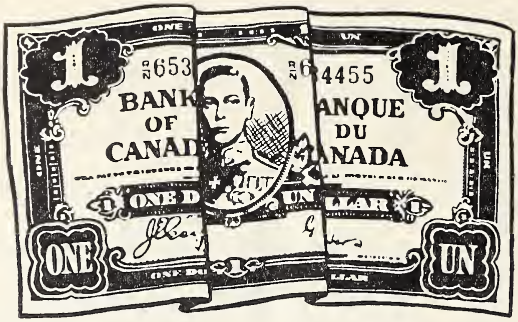


How many? ______

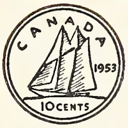


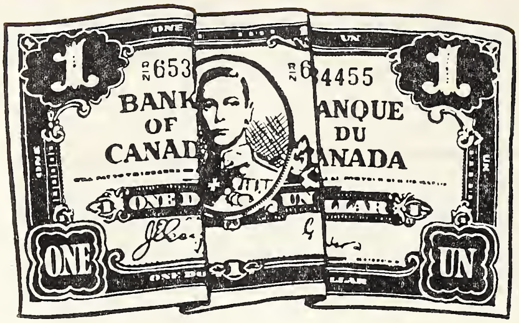
How many? ______


1 CENT
1953
CANADA

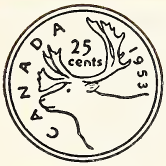

1
BANK
OF
CANAD
ANQUE
DU
ANADA
ONE
UN

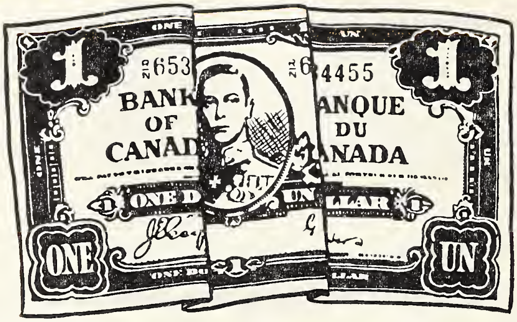
______


CANADA
1953
10 CENTS

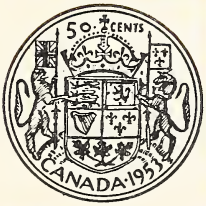

1
BANK
OF
CANAD
ANQUE
DU
ANADA
ONE
UN

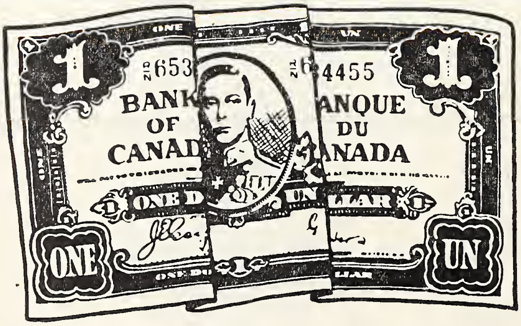
______


CANADA
25 cents
1953

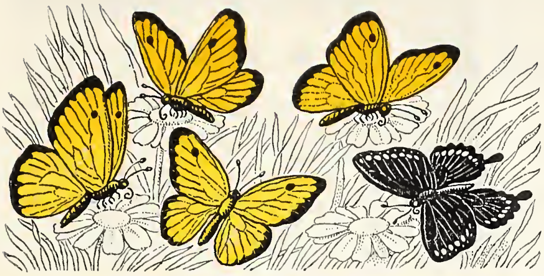

1
BANK
OF
CANAD
ANQUE
DU
ANADA
ONE
UN

______


50 CENTS
CANADA 1953


1
BANK
OF
CANAD
ANQUE
DU
ANADA
ONE
UN

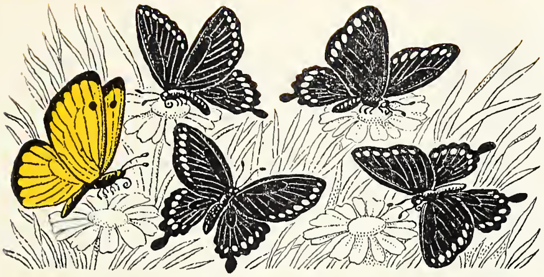
______



How many in all? ____

How many are yellow? ____

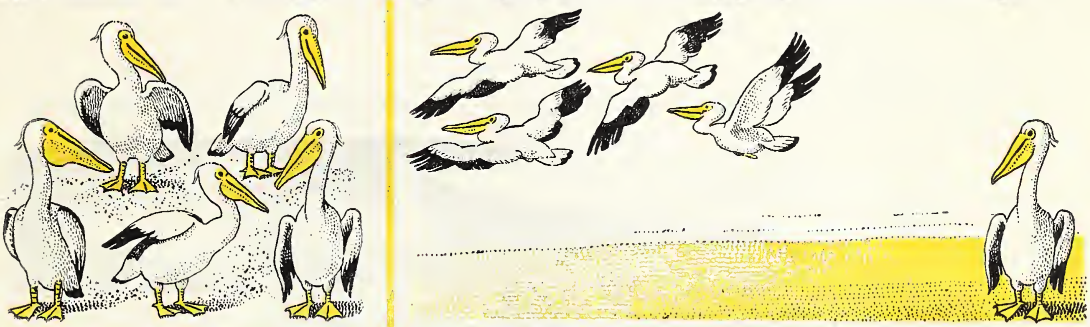
How many are black? ____

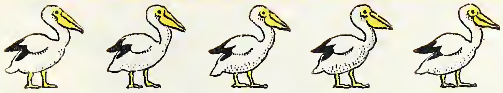


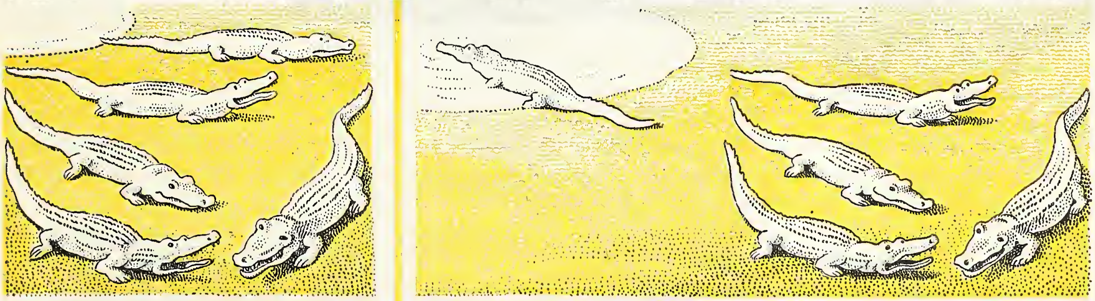
How many in all? ____

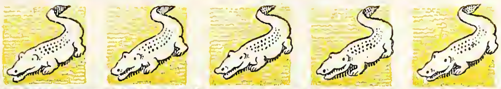
How many are yellow? ____

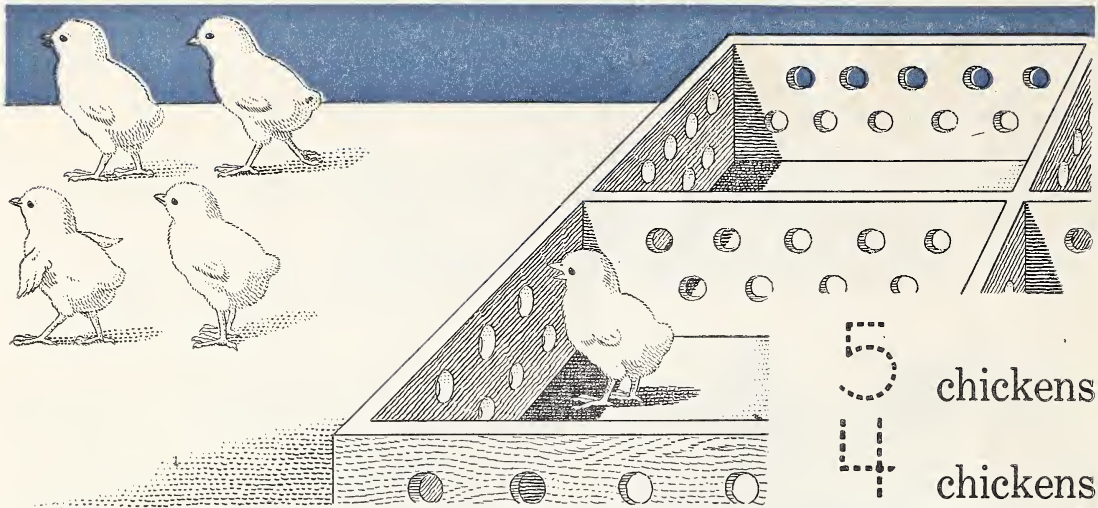
How many are black? ____



Take 4 from 5.  ____ left



Take 1 from 5.  ____ left



5 chickens

4 chickens

Take 4 chickens from 5 chickens.
Tell how many are left.

____ chicken

---

5 ducks

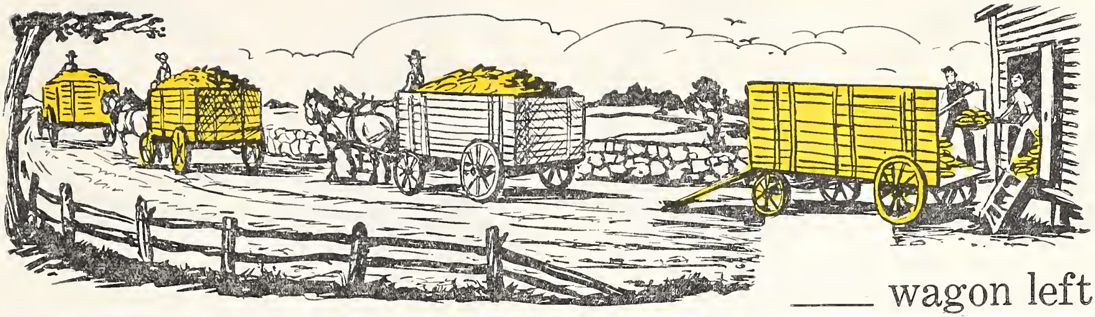
1 duck

Take 1 duck from 5 ducks.
Tell how many are left.

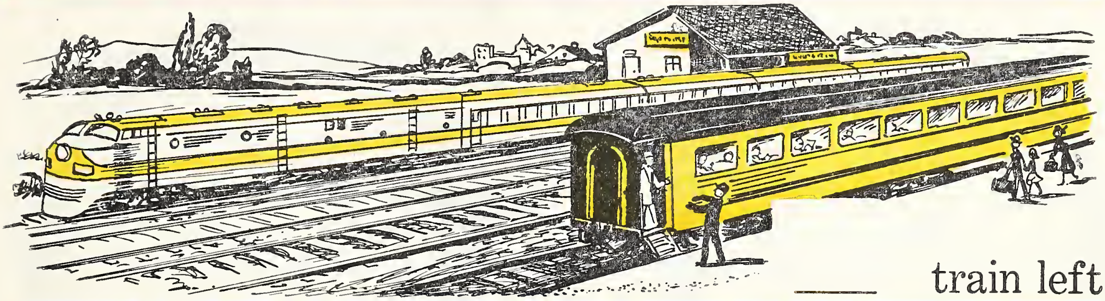
____ ducks

Take away, and tell how many are left.

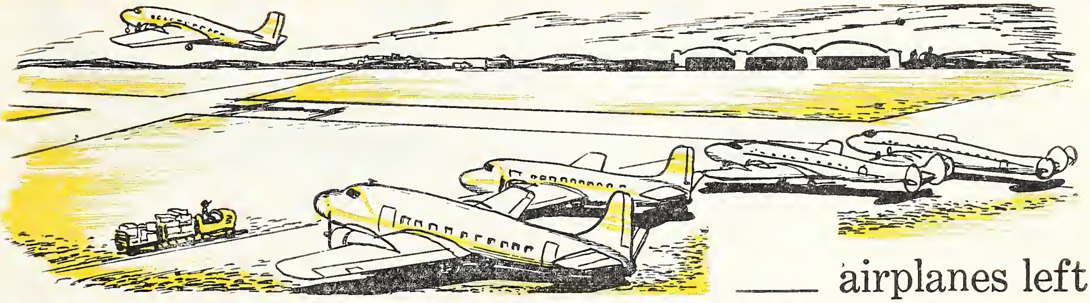
5 wagons	4 boats	5 ponies	4 trees
1 wagon	2 boats	4 ponies	1 tree
____wagons	____boats	____pony	____trees



____ wagon left



____ train left



____ airplanes left

Take away, and tell how many are left.

5 rabbits
4 rabbits
____rabbit

4 cakes
2 cakes
____cakes

2 dolls
1 doll
____doll

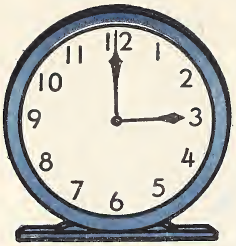
4 beds
3 beds
____bed

4 kittens
1 kitten
____kittens

3 boats
2 boats
____boat

3 trees
1 tree
____trees

5 hats
1 hat
____hats



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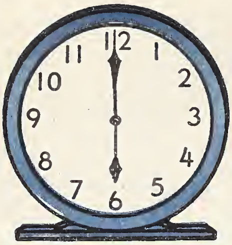

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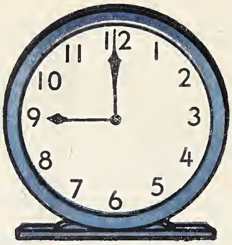

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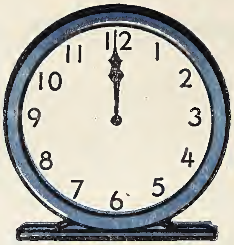

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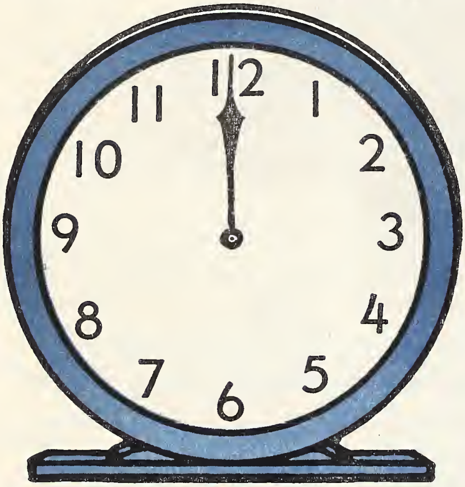
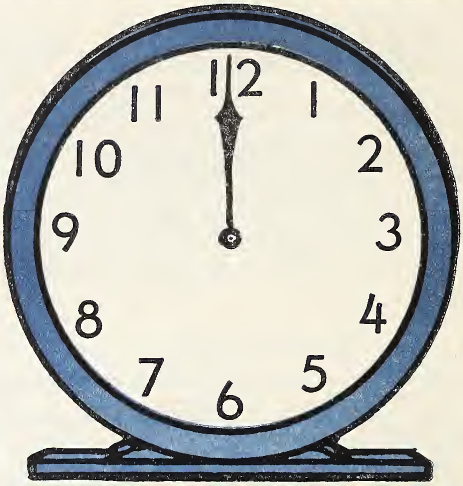


11



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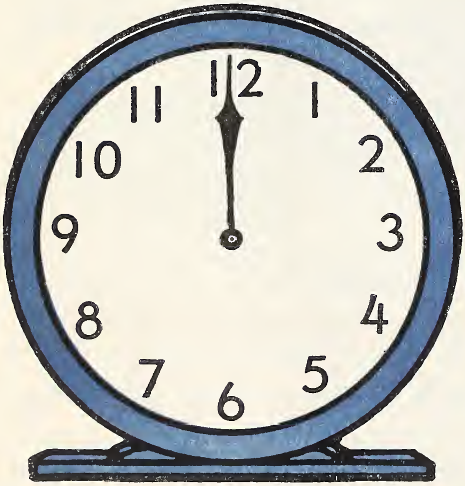
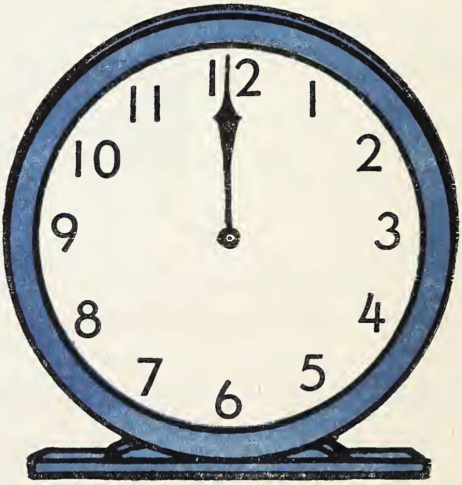
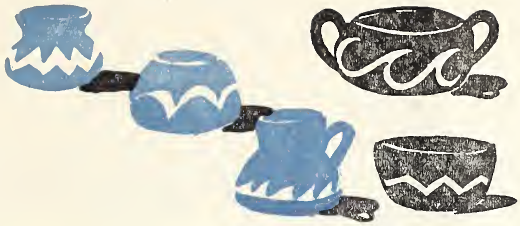


1



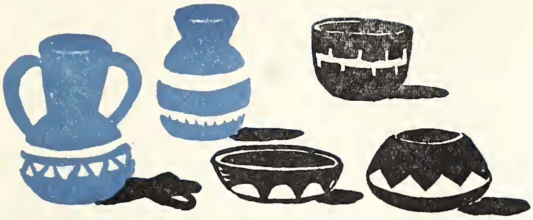
8



How many in all? ____

How many are blue? ____

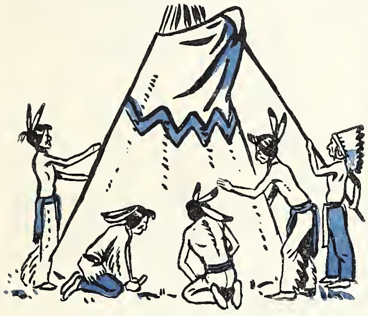
How many are black? ____

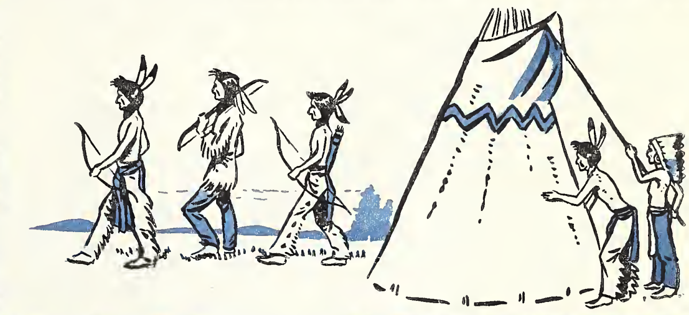


How many in all? ____

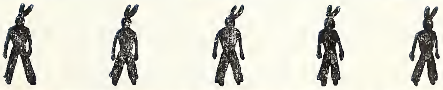
How many are blue? ____

How many are black? ____

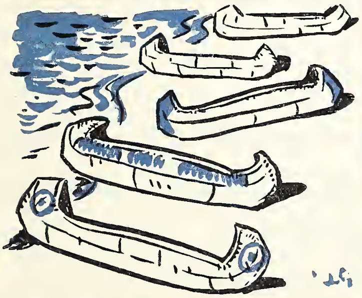


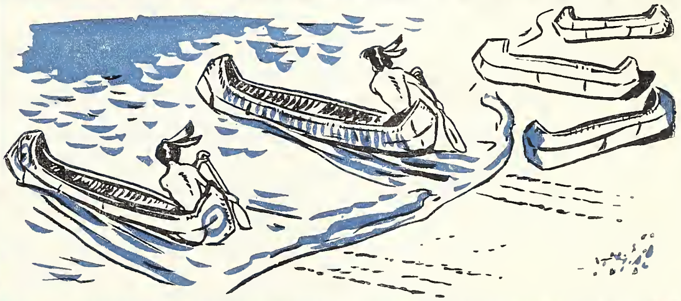


Take 3 from 5.

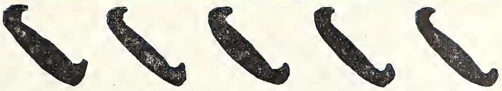


____ left





Take 2 from 5.



____ left

5 girls

3 girls

Take 3 girls from 5 girls.
Tell how many are left. ____ girls

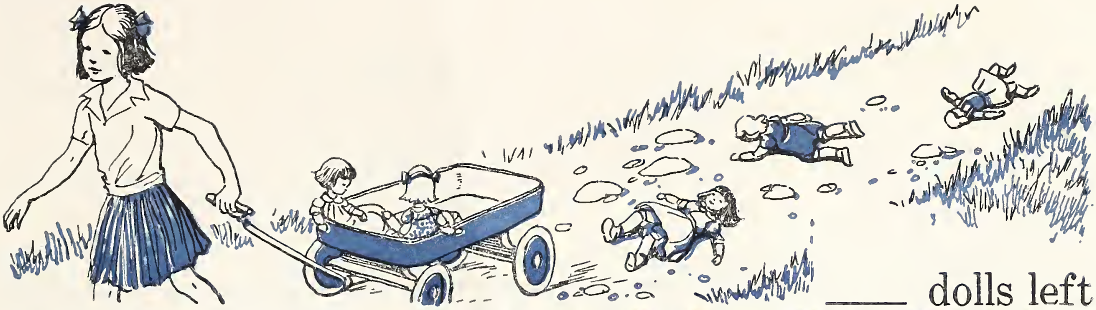
5 boys

2 boys

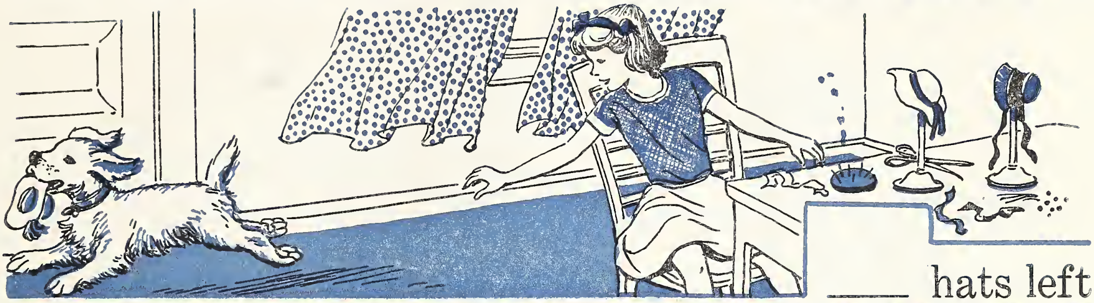
Take 2 boys from 5 boys.
Tell how many are left. ____ boys

Take away, and tell how many are left.

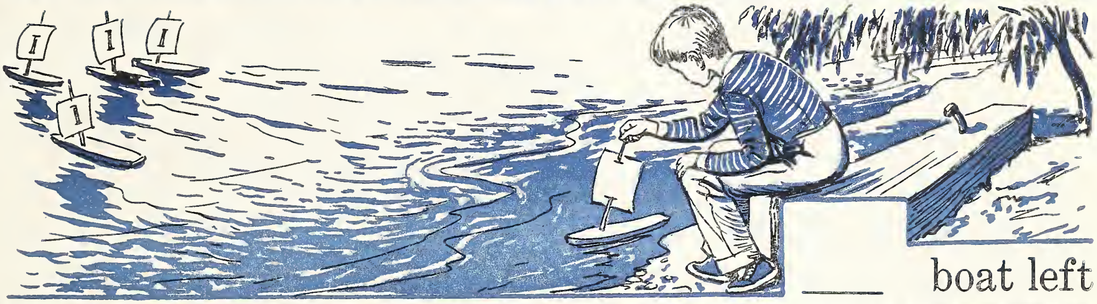
3 toys	5 dolls	5 hens	5 beds
1 toy	2 dolls	3 hens	1 bed
____toys	____dolls	____hens	____beds



____ dolls left



____ hats left



____ boat left

Take away, and tell how many are left.

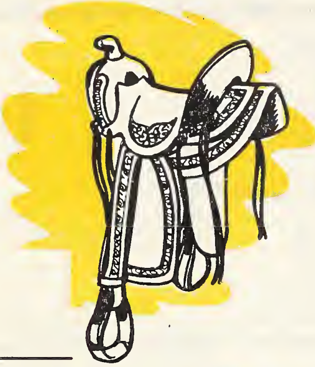
5 pets	4 rabbits	5 ducks	2 dogs
1 pet	3 rabbits	2 ducks	1 dog
____pets	____rabbit	____ducks	____dog

3 pigs	5 chickens	4 ponies	5 cows
2 pigs	3 chickens	2 ponies	4 cows
____pig	____chickens	____ponies	____cow

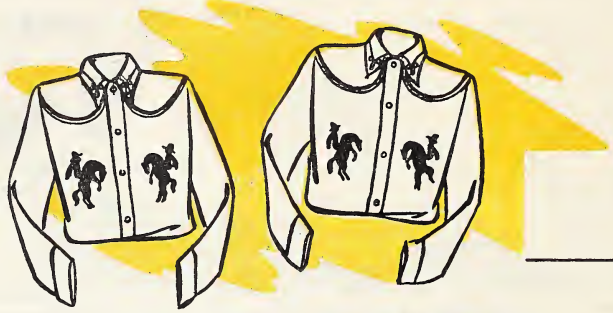
____68____ ____53____ ____89____ ____72____

____91____ ____47____ ____86____ ____39____

____80____ ____71____ ____60____ ____99____



______



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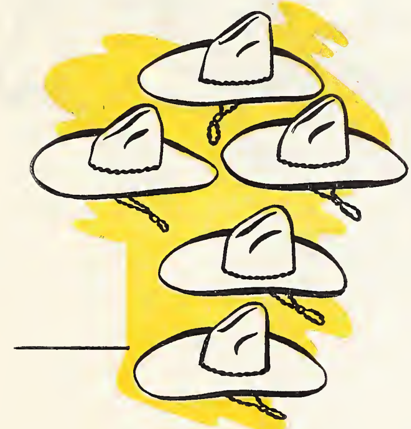
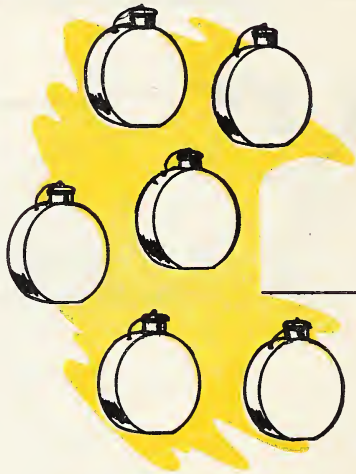


______

two
one
six
five
four
three



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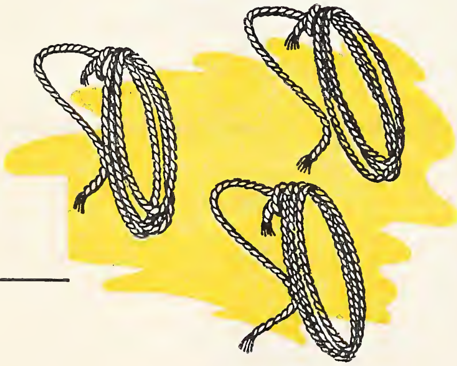

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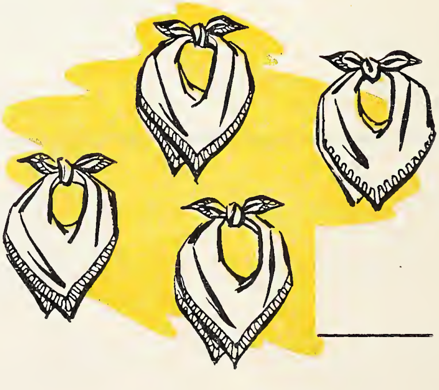

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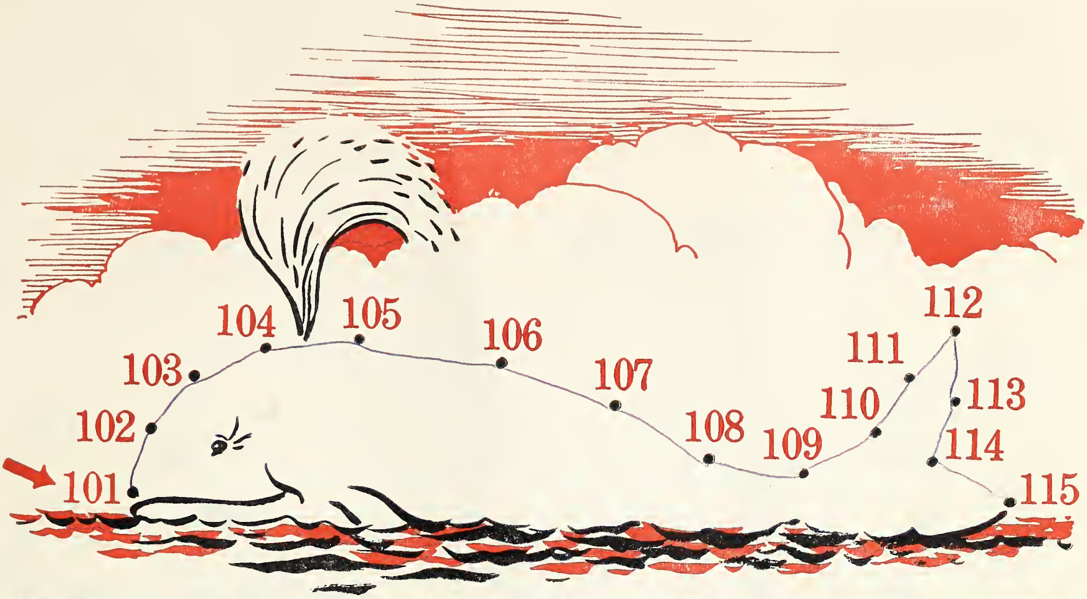
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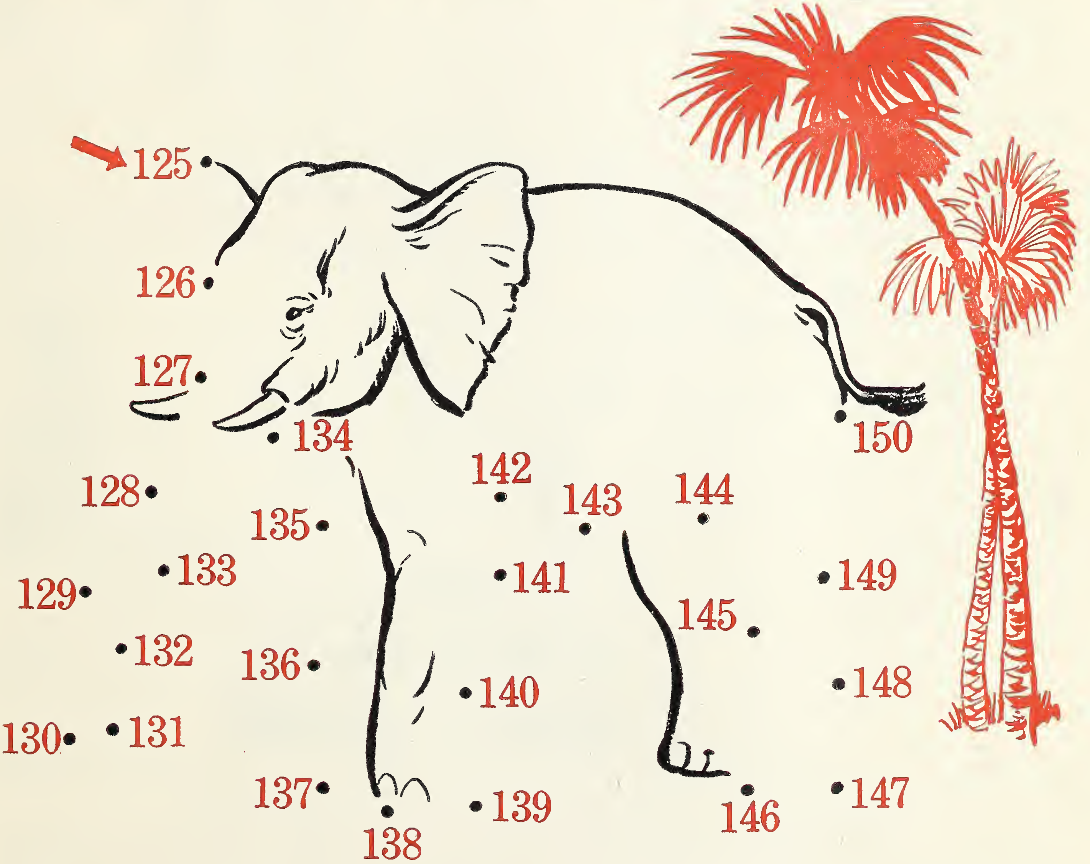
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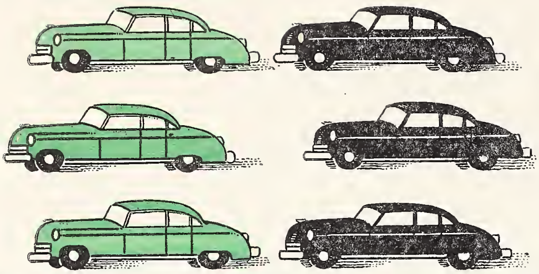
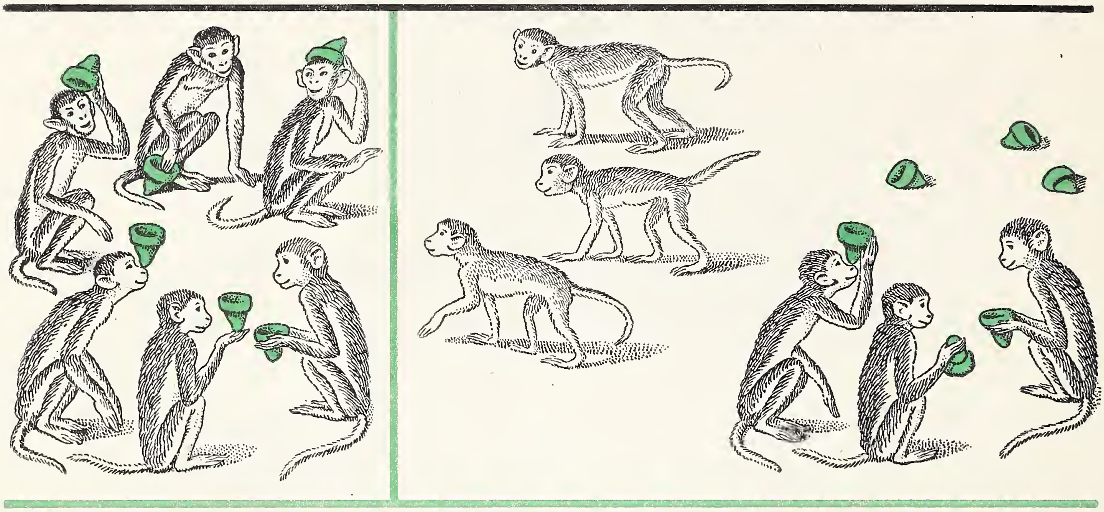
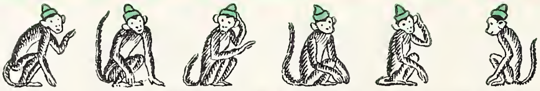


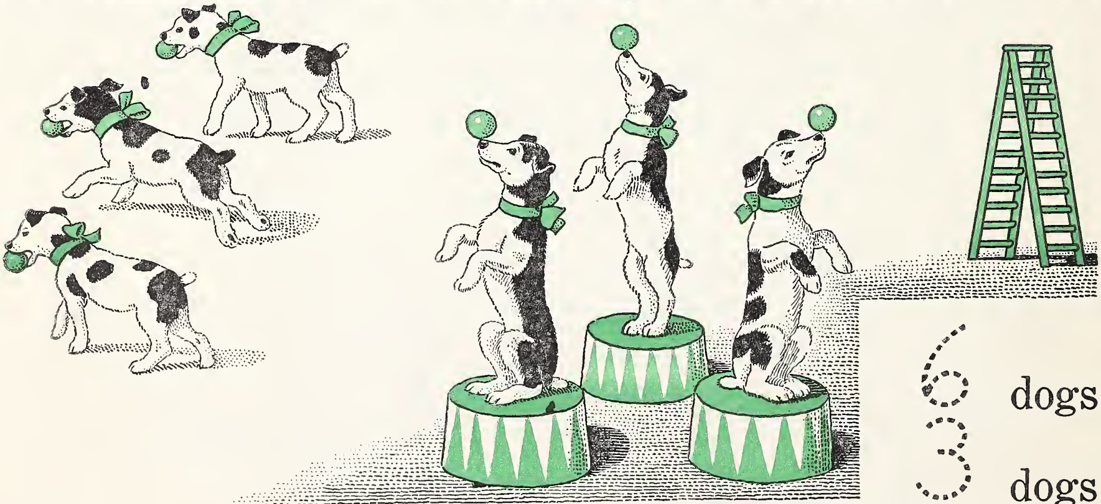
How many in all? ____

How many are green? ____

How many are black? ____



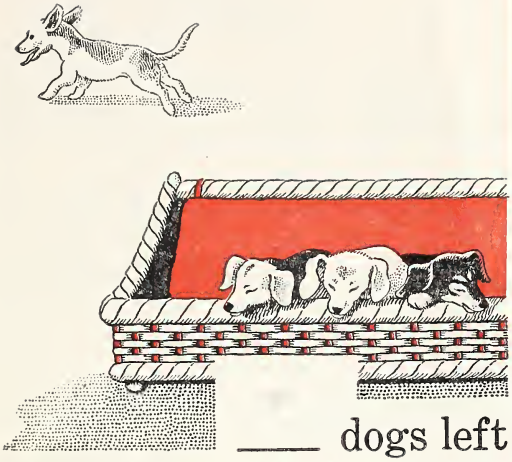
Take 3 from 6.  ____ left



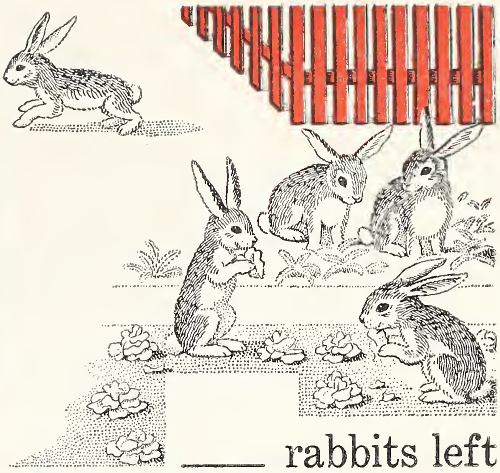
6 dogs

3 dogs

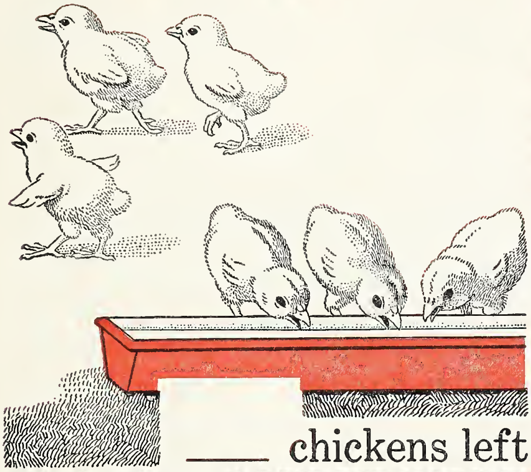
Take 3 dogs from 6 dogs.
Tell how many are left. ____ dogs



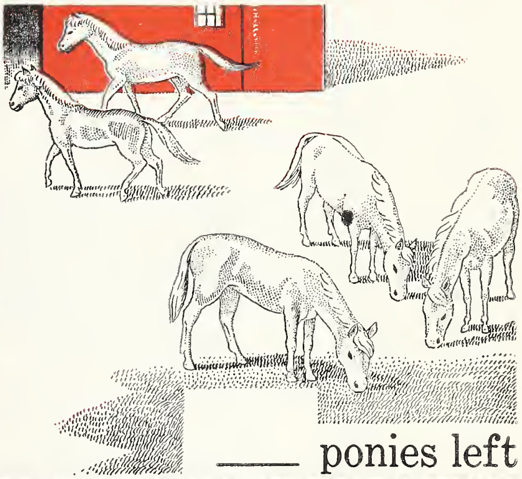
____ dogs left



____ rabbits left



____ chickens left

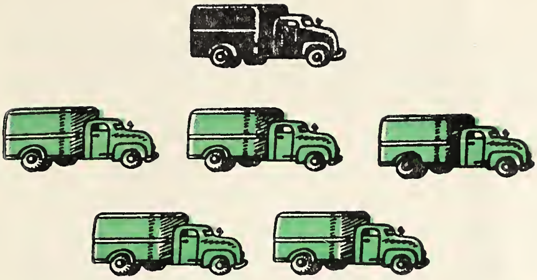


____ ponies left

Take away, and tell how many are left.

5 rabbits	3 kittens	5 pigs	6 hens
2 rabbits	1 kitten	4 pigs	3 hens
____rabbits	____kittens	____pig	____hens

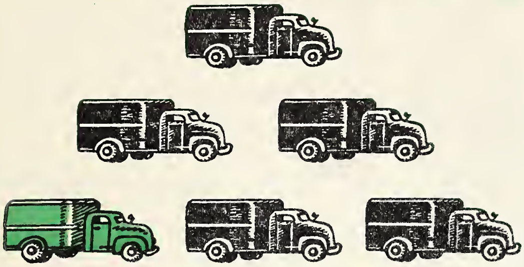
5 chickens	4 ducks	5 cows	4 pets
1 chicken	2 ducks	3 cows	1 pet
____chickens	____ducks	____cows	____pets



How many in all? ____

How many are green? ____

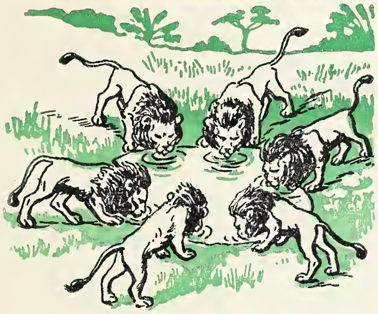
How many are black? ____

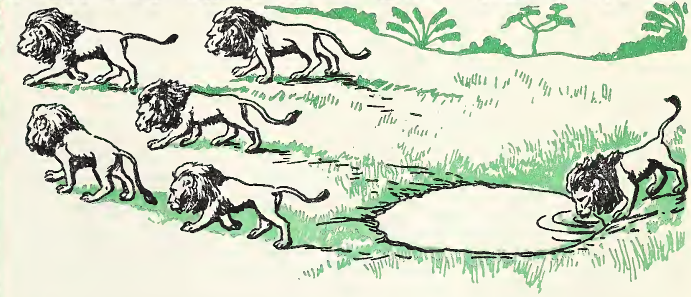


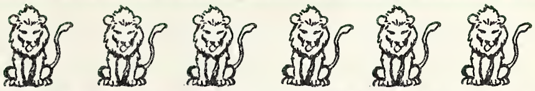
How many in all? ____

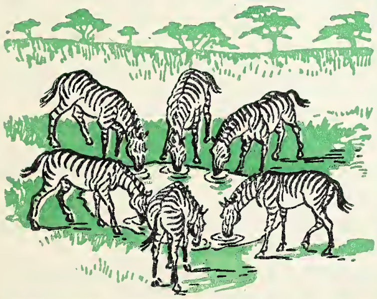
How many are green? ____

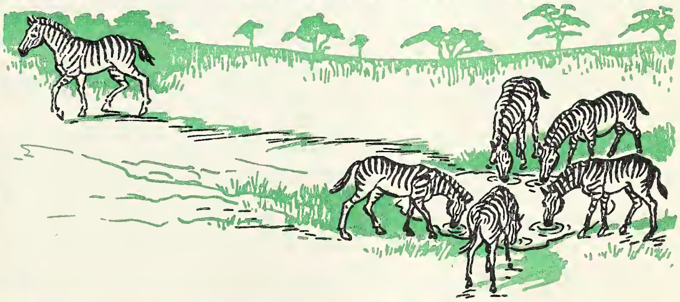
How many are black? ____

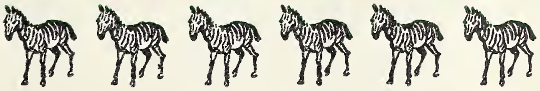




Take 5 from 6.  ____ left



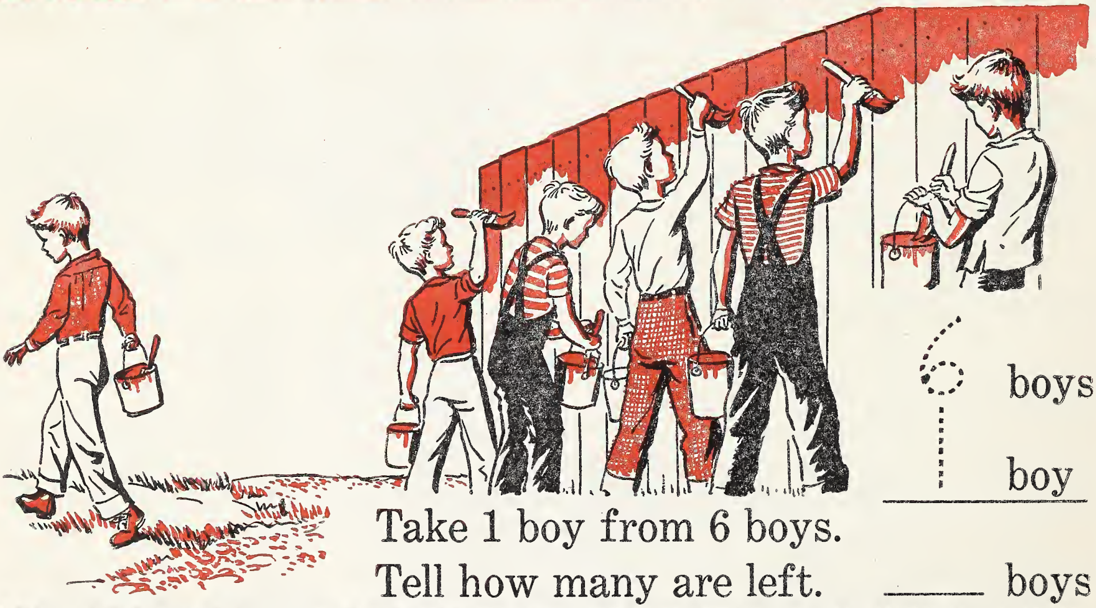


Take 1 from 6.  ____ left

6 girls
5 girls

Take 5 girls from 6 girls.
Tell how many are left.

____ girl



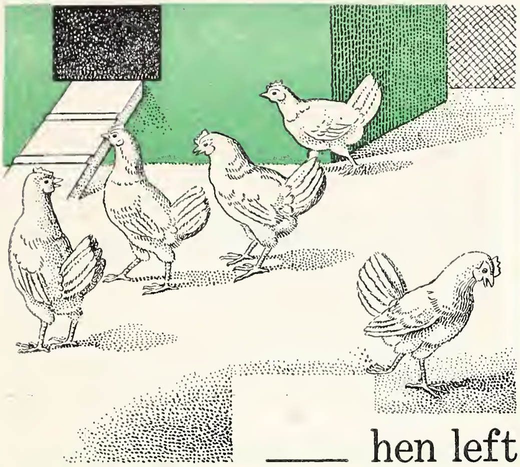
6 boys
1 boy

Take 1 boy from 6 boys.
Tell how many are left.

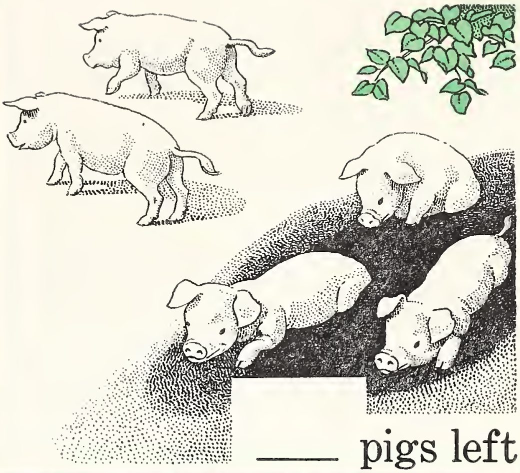
____ boys

Take away, and tell how many are left.

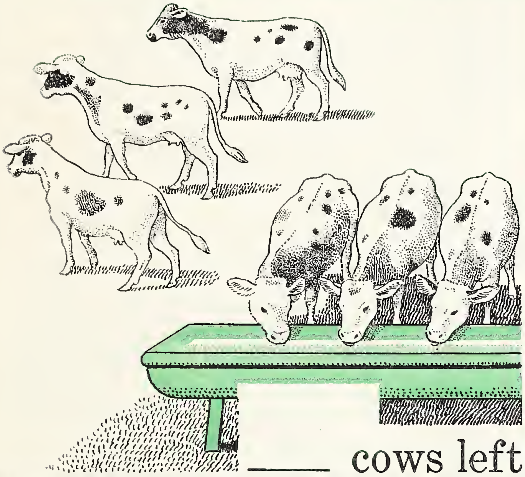
6 trees	5 balls	6 wagons	4 trains
1 tree	3 balls	5 wagons	3 trains
____trees	____balls	____wagon	____train



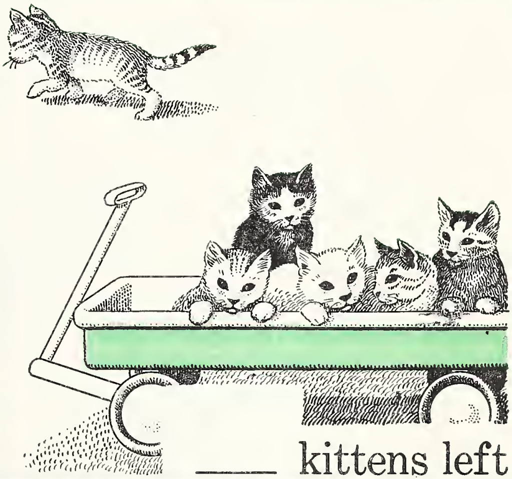
____ hen left



____ pigs left



____ cows left

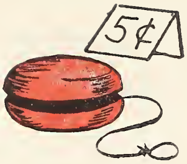


____ kittens left

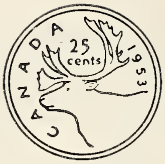
Take away, and tell how many are left.

5 trees	3 dogs	5 ducks	5 chickens
3 trees	2 dogs	4 ducks	2 chickens
____trees	____dog	____duck	____chickens

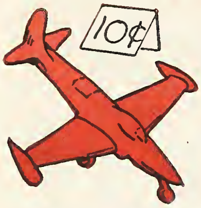
5 trains	6 pets	6 ponies	6 rabbits
1 train	5 pets	1 pony	3 rabbits
____trains	____pet	____ponies	____rabbits



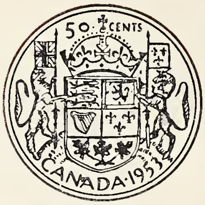
Tell how many for



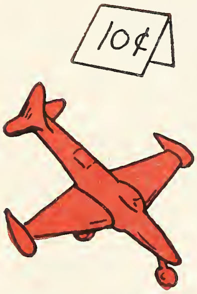
______



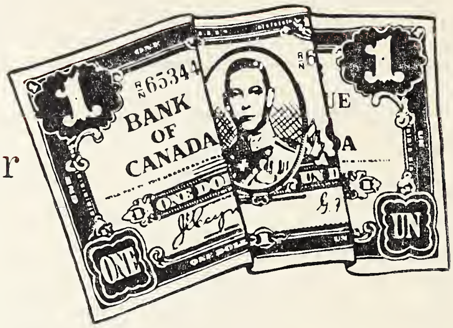
Tell how many for



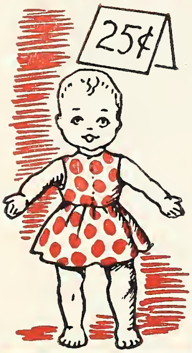
______



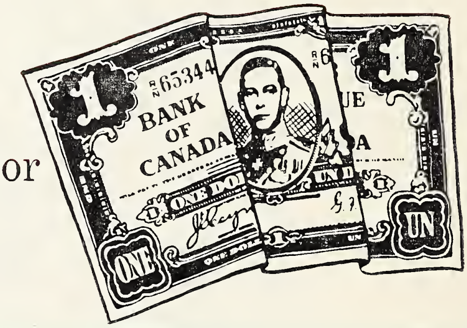
Tell how many for



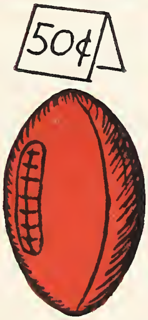
______



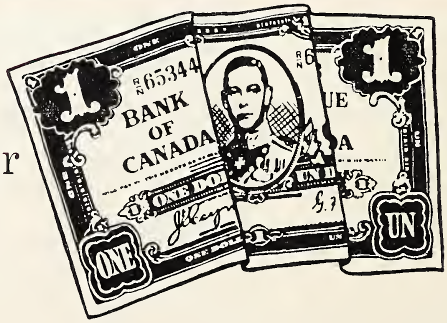
Tell how many for



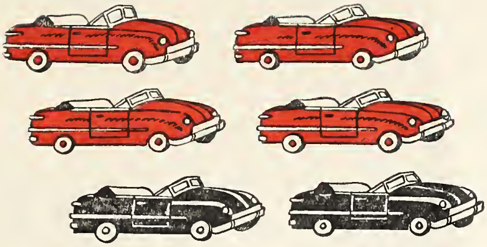
______



Tell how many for



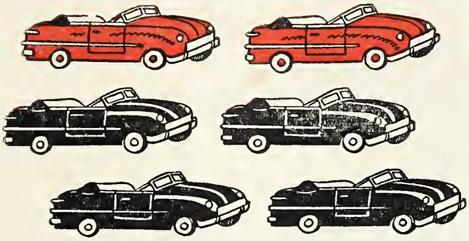
______



How many in all? ____

How many are red? ____

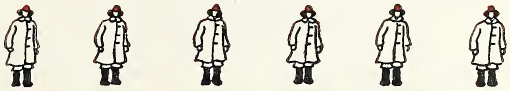
How many are black? ____

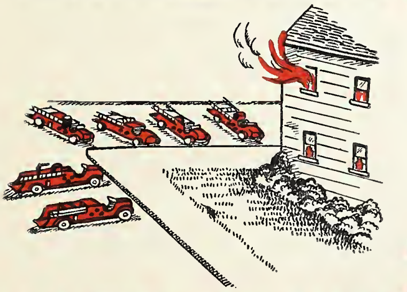


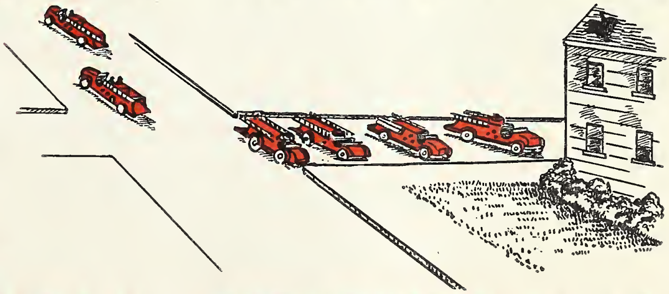
How many in all? ____

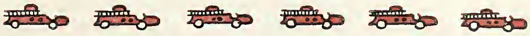
How many are red? ____

How many are black? ____

Take 4 from 6.  ____ left

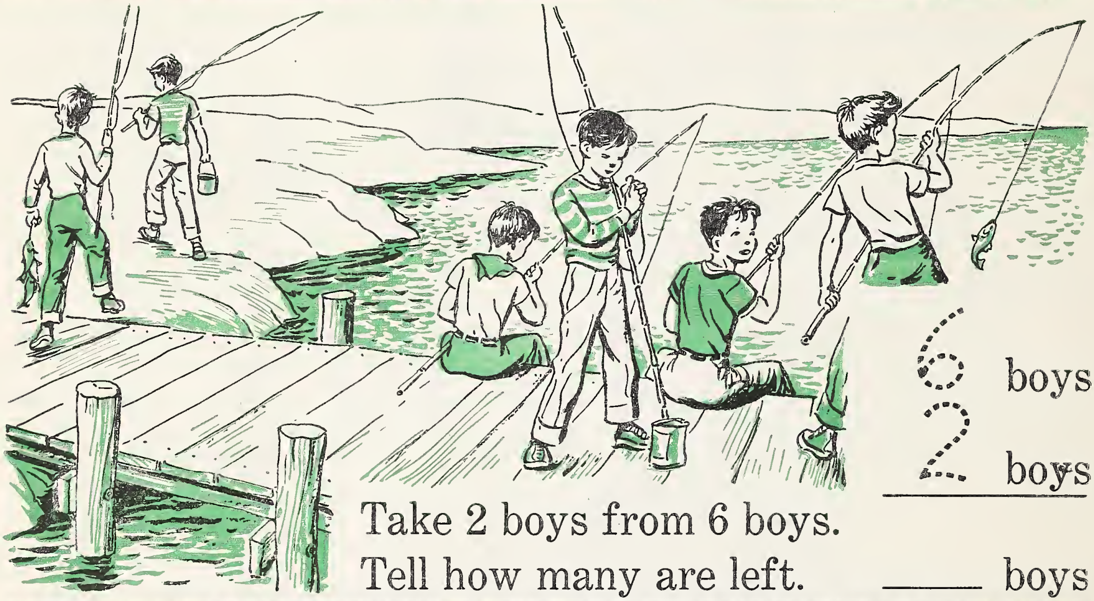




Take 2 from 6.  ____ left

6 girls
4 girls

Take 4 girls from 6 girls.
Tell how many are left. ____ girls

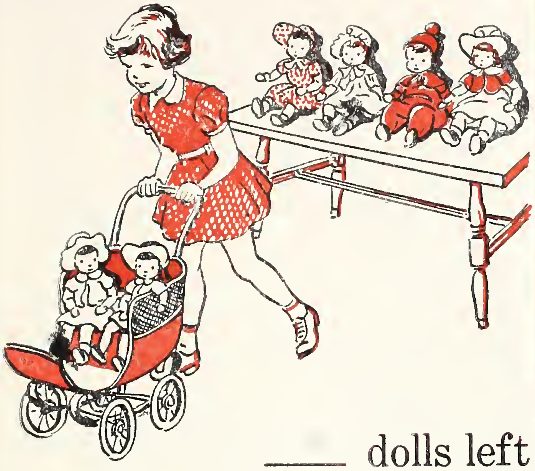


6 boys
2 boys

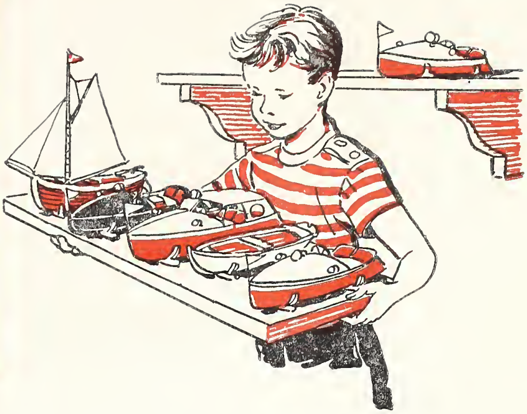
Take 2 boys from 6 boys.
Tell how many are left. ____ boys

Take away, and tell how many are left.

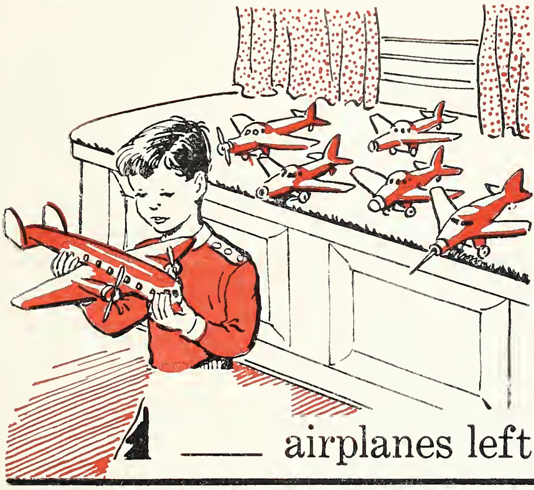
6 pets	2 chickens	6 cakes	6 dogs
4 pets	1 chicken	3 cakes	2 dogs
____pets	____chicken	____cakes	____dogs



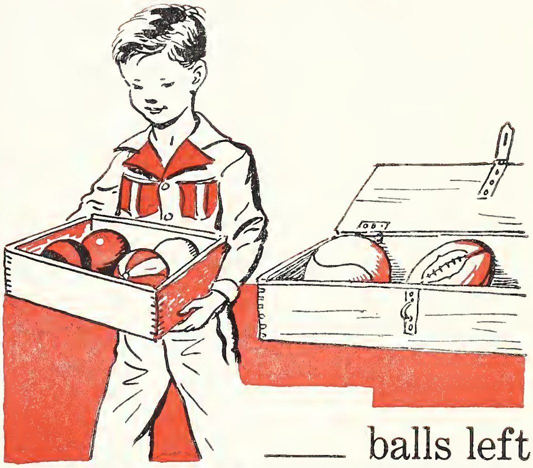
____ dolls left



____ boat left



____ airplanes left



____ balls left

Take away, and tell how many are left.

6 dogs
5 dogs
____dog

5 ponies
3 ponies
____ponies

6 chickens
4 chickens
____chickens

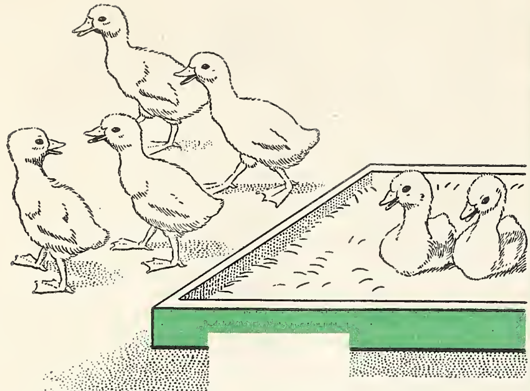
4 cows
1 cow
____cows

6 pigs
3 pigs
____pigs

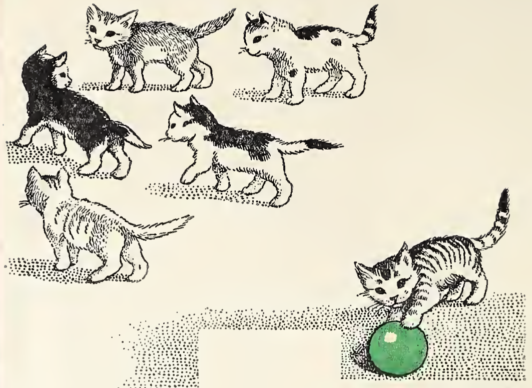
6 rabbits
1 rabbit
____rabbits

5 kittens
2 kittens
____kittens

6 hens
2 hens
____hens



____ ducks left

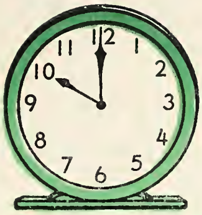


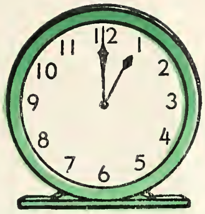
____ kitten left

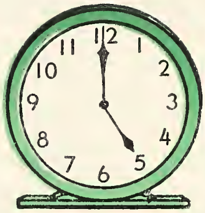
Take away, and tell how many are left.

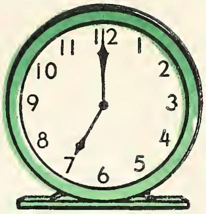
4 cakes	6 boats	3 cows	6 rabbits
3 cakes	4 boats	1 cow	5 rabbits
____cake	____boats	____cows	____rabbit
4 pets	3 dolls	6 hats	5 ponies
2 pets	2 dolls	3 hats	1 pony
____pets	____doll	____hats	____ponies
6 trains	5 toys	2 beds	5 kittens
2 trains	3 toys	1 bed	4 kittens
____trains	____toys	____bed	____kitten

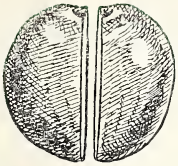
4 chickens	6 wagons	5 airplanes
1 chicken	1 wagon	2 airplanes
____chickens	____wagons	____airplanes

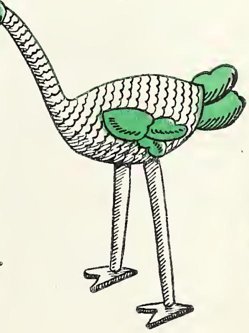




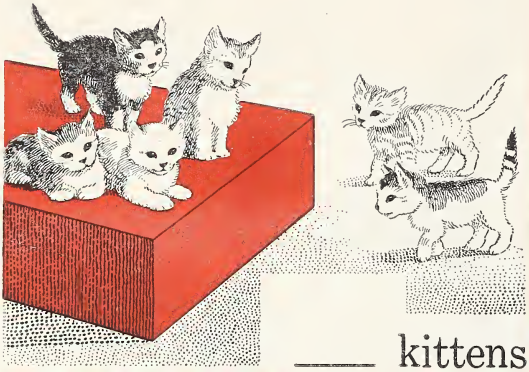




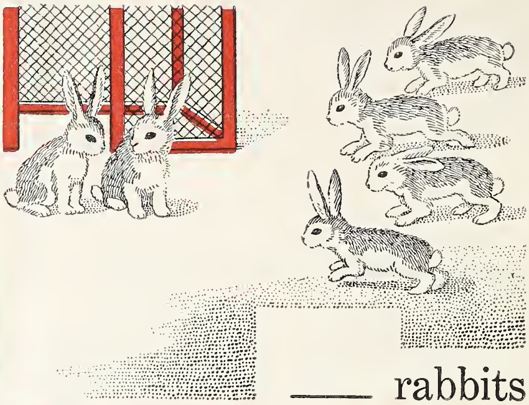




Tell how many there are in all.



____ kittens



____ rabbits

2 pets
1 pet
____pets

4 cakes
2 cakes
____cakes

3 beds
1 bed
____beds

2 boats
2 boats
____boats

1 dog
4 dogs
____dogs

1 doll
1 doll
____dolls

3 cows
3 cows
____cows

1 pony
3 ponies
____ponies

2 pigs
3 pigs
____pigs

4 balls
1 ball
____balls

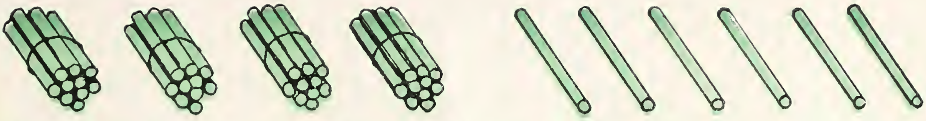
1 hat
2 hats
____hats

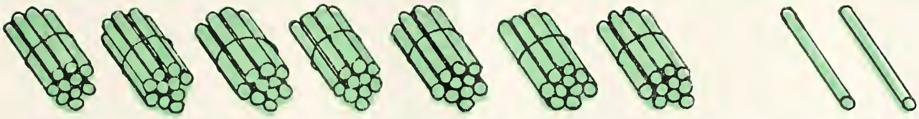
1 wagon
5 wagons
____wagons

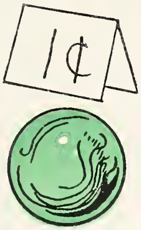
3 rabbits
2 rabbits
____rabbits

5 airplanes
1 airplane
____airplanes

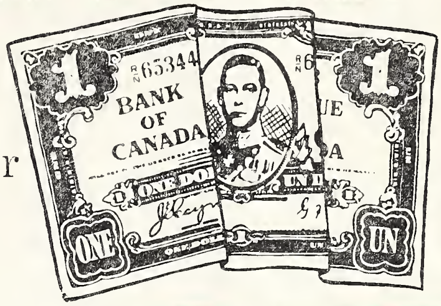
2 chickens
4 chickens
____chickens

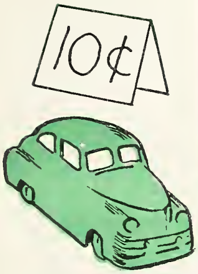




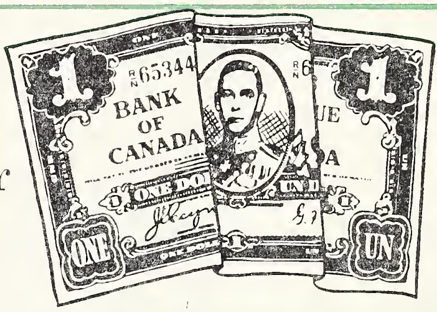


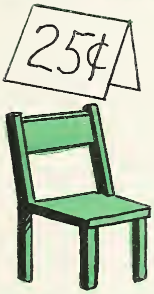
Tell how many for



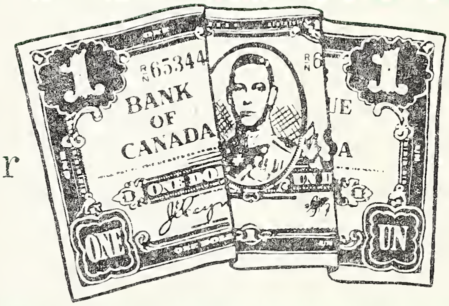


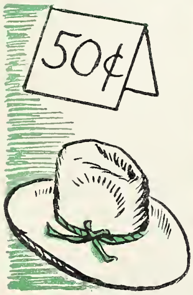
Tell how many for





Tell how many for





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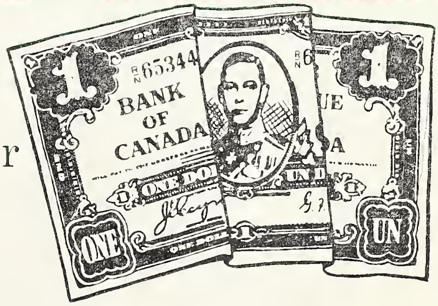
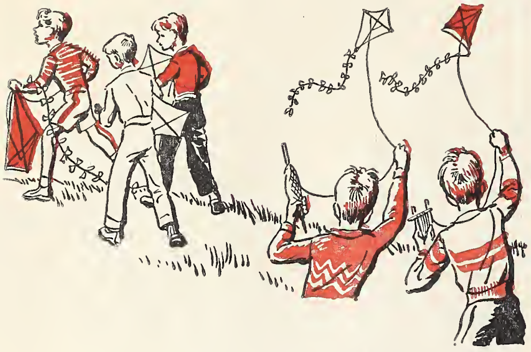
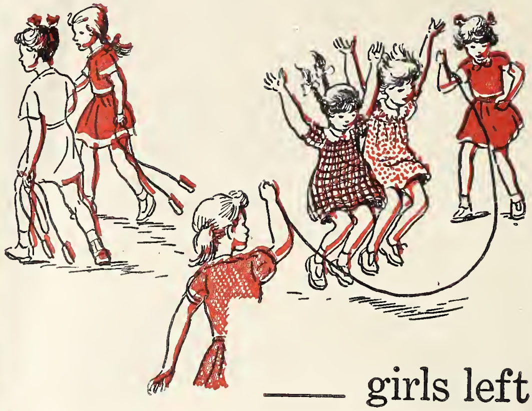


Take away, and tell how many are left.



___ boys left



___ girls left

2 hens
1 hen
___hen

5 cows
2 cows
___cows

6 trains
1 train
___trains

3 ponies
2 ponies
___pony

4 beds
1 bed
___beds

6 pigs
4 pigs
___pigs

4 wagons
2 wagons
___wagons

5 cakes
4 cakes
___cake

6 balls
3 balls
___balls

3 pets
1 pet
___pets

6 rabbits
2 rabbits
___rabbits

4 dolls
3 dolls
___doll

5 airplanes
3 airplanes
___airplanes

6 chickens
5 chickens
___chicken

5 kittens
1 kitten
___kittens

[illegible]ADE ONE LEARNING PROGRAM

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Every learning experience in this book is planned as the culminating activity in a twofold learning program. The preliminary experiences in every case are concrete classroom activities. The concrete part of the program is outlined in detail in the convenient Teacher's Edition of the Grade One Program.

The content of MAKING SURE OF ARITHMETIC, Grade One, is organized as follows:

1. One-to-One Correspondence and Rational Counting (Pages 1-5)

Pages 1-3:	One-to-one correspondence
Page 4:	Rational counting to 10—oral
Page 5:	Comparison—*more, as many as*

2. The Numbers 1 to 5 (Pages 6-20)

Page 6:	The number 1
Page 7:	The number 2
Page 8:	Terms—*top* and *bottom*
Pages 9-11:	The number 3
Page 12:	Terms—*left* and *right*
Pages 13-15:	The number 4
Pages 16-18:	The number 5
Page 19:	Money—pennies and nickels
Page 20:	Test—the numbers to 5

3. The Numbers 6 to 10 (Pages 21-44)

Page 21:	Test—rational counting, oral, 6 to 10
Pages 22-24:	The number 6
Page 25:	Test on terms
Pages 26-28:	The number 7
Pages 29-31:	The number 8
Page 32:	Terms—*over* and *under*
Pages 33-35:	The number 9
Pages 36-38:	The number 10
Page 39:	Money—pennies, nickels, and dimes
Page 40:	Test—counting; writing numbers
Page 41:	Test—understanding numbers to 10
Page 42:	Understanding the sequence and relative value of numbers to 10
Page 43:	Numbers to 10—writing in sequence
Page 44:	Money—value to one dime

4. Groups from 2 to 10 (Pages 45-57)

Page 45:	Terms—*larger* and *smaller* objects
Page 46:	The meaning of *group*
Page 47:	Comparison—larger and [illegible]
Page 48:	Comparison—large[illegible]
Pages 49-55:	Groups—discover[illegible]en[illegible] forming groups to 10
Page 56:	Ordinals—*first, next, last*
Page 57:	Terms—*above* and *below*

5. The Numbers 11 to 20 (Pages 58-[illegible])

Page 58:	Understanding numbers fr[illegible] 20
Page 59:	Rational counting to 20—[illegible]
Page 60:	Writing numbers to 20 in se[illegible]
Pages 61-62:	Understanding tens and [illegible] from 11 to 20
Page 63:	Counting by 5' [illegible]
Page 64:	Test—sequ[illegible] to 20

6. Learning to Add (Pa[illegible]

[illegible] very— [illegible] 4

[illegible] ig

Page 78:	Meaning of 2-place numbers extended
Page 79:	Discovery—two groupings of 5
Pages 80-81:	Addition—4 and 1 are 5; 1 and 4 are 5; practice
Page 82:	Oral number stories; practice
Pages 83-84:	Telling time to the hour
Page 85:	Discovery—two groupings of 5
Pages 86-87:	Addition—3 and 2 are 5; 2 and 3 are 5; practice
Page 88:	Oral number stories; practice
Page 89:	Fractions (one-half of an object)
Page 90:	Discovery; addition—3 and 3 are 6; practice
Page 91:	Oral number stories; practice
Page 92:	Number words—*one, two, three*
Page 93:	Maintenance—numbers to 50; number words *one, two, three*
Page 94:	Maintenance and extension—meaning of 2-place numbers.
Page 95:	Discovery—two groupings of 6
Pages 96-97:	Addition—5 and 1 are 6; 1 and 5 are 6; practice
Page 98:	Oral number stories; practice
Pages 99-100:	Money—the quarter and half dollar; counting by 5's and 10's
Page 101:	Discovery—two groupings of 6
Pages 102-103:	Addition—4 and 2 are 6; 2 and 4 are 6; practice
Page 104:	Oral number stories; practice
Pages 105-106:	Counting by 1's and 10's to 100; writing numbers to 100 in sequence
Page 107:	Number words—*four, five, six;* maintenance of *one, two, three*
Page 108:	Test—the 15 known addition facts

7. Learning to Subtract (Pages 109-140)

Page 109:	Discovery; subtraction—2 from 4 is 2
Page 110:	Discovery; subtraction—1 from 2 is 1
Pages 111-112:	Discovery; subtraction—2 from 3 is 1; 1 from 3 is 2; practice
Page 113:	Maintenance—terms
Pages 114-115:	Discovery; subtraction—3 from 4 is 1; 1 from 4 is 3; practice
Page 116:	Oral number stories; practice
Page 117:	Maintenance—sequence of numbers; meaning of 2-place numbers
Page 118:	Reading numbers to 150
Pages 119-120:	Money—one dollar; counting by 10's
Pages 121-122.	Discovery; subtraction—4 from 5 is 1; 1 from 5 is 4; practice
Page 123:	Oral number stories; practice
Page 124:	Maintenance—telling time to the hour
Pages 125-126:	Discovery; subtraction—3 from 5 is 2; 2 from 5 is 3; practice
Page 127:	Oral number stories; practice
Page 128:	Maintenance—numbers; number words
[illegible]:	Maintenance—number sequence to 150
[illegible]-131:	Discovery; subtraction—3 from 6 is 3; practice; oral number stories
[illegible]	Maintenance—one-half; terms
Pages [illegible]34:	Discovery; subtraction—5 from 6 is 1; 1 from 6 is 5; practice
Page 135:	Oral number stories; practice
Page 136:	Maintenance—money
Pages 137-138:	Discovery; subtraction—4 from 6 is 2; 2 from 6 is 4; practice
Page 139:	Oral number stories; practice
Page 140:	Test—the 15 known subtraction facts

8. Making Sure Tests (Pages 141-144)

Page 141:	Tests—time; the fraction one-half; terms; ordinals
Page 142:	Test—the 15 known addition facts
Page 143:	Tests—2-place numbers; money
Page 144:	Test—the 15 known subtraction facts

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